UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

Annual Report 1958

by
Robert B. Thornton, Mgr.
National Plant Materials Center
Beltsville, Maryland

This report covers the operations at the National Plant Materials Center, Beltsville, Md. These consist of assembly, distribution, production, identification of new accessions as well as special facilitating studies and other related activities.

TABLE OF CONTENTS

Assembly of Plant Materials

Approximately 800 new accessions were secured during the past year. This material represents the whole range of plant materials from forbs to trees. Many of the accessions were secured to fill requests of the Washington-Field Plant Materials Technicians and are destined for testing in the Plant Materials Centers throughout the United States. They were selected in an attempt to fill a need for plants that will do a more effective conservation job than the present known and used materials.

The 800 new accessions represent 143 genera. Those genera which make up the bulk of the acquisitions are Agropyron (Wheatgrass), Alopecurus (Meadow foxtail), Bromus (Bromes), Panicum (Panicums), Phalaris (Canarygrass), Pennisetum (Buffelgrass), Poa (Bluegrass), Rosa (Rose), Themeda (Themeda), Medicago (Medic) and Trifolium (Clover).

This material was furnished by many agencies and individuals. Included are field collections made by the plant materials field men and contributions from State Conservation agencies, Forage Crop Section of ARS, U.S. Forest Service, Arboreta, foreign introductions made by the New Crops Division of ARS, and foreign introductions resulting from direct correspondence by this unit. This material also includes items that were specifically acquired to fill foreign requests. Direct distribution was made of the items for which there was sufficient original seed. Arrangements for shipment to specific Plant Materials Centers are made through the Washington-Field Plant Materials Technicians, for domestic distribution. Foreign shipments are sent through channels provided by the U.S. Quarantine Inspection Station.

Where insufficient seed for direct distribution is received, the original seed is planted at the National Plant Materials Center, for increase of seed or vegetative materials.

Distribution--Domestic and Foreign

During the year more than 1100 packets of seed were distributed by this unit. These packets were distributed to all of the Plant Materials Centers throughout the United States, as well as Hawaii and the Plant Materials Technician in Puerto Rico. Each packet of seed going to an SCS unit was accompanied by a slip giving source, type of material, background information, and performance at the National Plant Materials Center, if grown here.

The material distributed covers the gamut of species with potentials for the dry arid southwest, cover crops for coffee to sod-forming grasses for water disposal and sand dune stabilization. The records of distribution and shipment are maintained at this unit in such a manner that material can be traced accurately in future years.

To assist in the conservation programs of other nations, over 300 packets of seed were prepared and shipped to thirty nations. The shipping points just about cover the globe going from Pretoria, South Africa to Egypt, from India to Pakistan, from Sydney, Australia to Cartago, Costa Rico, from Greece to Landskrona, Sweden, and from Brazil to Santa Cruz, Argentina. This certainly represents a wide interest in conservation vegetation. It is anticipated that the future will hold an increasing demand from other nations for additional conservational materials.

Production of Seed

As previously stated, many of the samples of seed received are of insufficient quantity or quality to permit direct distribution of the original seed to Plant Materials Centers. This necessitates initial increase of these accessions at this point. Wherever possible, an attempt is made to reproduce seed rather than vegetative material because of plant quarantine restrictions. The majority of seed production is confined to single rod row plantings from which the resulting crop is collected, cleaned, and distributed. More than 330 accessions were processed during the year.

A number of accessions are ecotypes of one species. This creates quite an isolation problem, in order to maintain a good degree of purity. It is particularly true of the insect-pollinated material. The greenhouse facilities are utilized to take care of winter annual legumes and certain other tender accessions which would be killed by our winter temperatures. Some of these are started and retained in the greenhouses while others are field grown until fall and then lifted and brought into the greenhouse for maturing.

Bulk production of seed during the year was limited to two selections of Bush Lespedeza and Autumn Olive (Elaeagnus umbellata).

Stock Production

The entire production of Black locust for the cooperative clonal tests is concentrated here. During the spring of 1958, there was an accumulative total of 18½ inches of rainfall. Even in our sandy soils this was too much for the root cuttings of certain locust clones, resulting in a low percentage of sprouting. The Black locust clones are to be planted in ten blocks of one-hundred each. As a result of bad weather and poor sprouting, it was necessary to delay actual field plantings, in cooperation with U.S. Forest Service, for another year. Every effort will be made in the 1959 season to have sufficient stock of each of the ten clones so that some of the climatic test plantings can be established in the spring of 1960.

Other than the Black locust, small quantities of additional material in 1000-4000 lots was produced for field plantings by the Plant Materials Technicians in the northeast. This included Elymus giganteus (Volga wildrye), Indigofera kirilowi (Kirilow indigo), Liriope graminifolia (Lily turf), Lonicera maackii podocarpa (honeysuckle, a variety of Amur), Panicum amarulum (Beachgrass panicum), Panicum amarum (Bitter panicum), Salix purpurea nana (Dwarf purple willow) and Tripsacum dactyloides (Eastern gamagrass).

Special Studies

(1) Germination of Legumes in Sphagnum

Despite precautionary measures, including the use of Vermiculite as a germinating medium, pretreating with a fungicide and controlled greenhouse temperatures, considerable damping off in legume seedlings occurred each spring. As a result, initial tests were run on thirty species representing twenty genera which appeared to be highly susceptible to damping off. The sphagnum was ground through a hammermill, premoistened and used to fill metal flats. No cases of damping off were observed on any of the species under test. Most of the seedlings remained in the flats for a 20-day period and a few for 30 days.

However, on Crotalaria's there was some dying, due to lesions just below the cotyledons. As a result, all fall greenhouse plantings of legumes were made in sphagnum-filled flats, with excellent results. Weak applications of water-soluble fertilizer can be applied to stimulate growth. The concentrated solutions are detrimental. Out of curosity, a few plants were left in the sphagnum medium where they flowered and matured seed.

(2) Panicum Amarulum and P. Virgatum Strains

Since 1956, 33 strains of Panicum amarulum, P. virgatum, and P. virgatum v. cubense have been assembled and grown with the view of selecting types for three purposes--forage, wildlife habitat improvement, and gully and sand blow control. Although final selection of the material has not been made, five of the accessions appear promising. All of the native materials have been compared with three named varieties--Blackwell, Nebraska 28 and Caddo. The green weight of the tops ranges from 5000 to more than 70,000 pounds per acre. Some accessions are leafy and fairly resistant to rust but are too far north at this latitude to mature seed. With regard to seed production, there are several selections which produce two to two-and-one-half times more seed than Caddo or Blackwell. It is anticipated that a group of interested Plant Materials Technicians will have an opportunity to make the final selections for the various uses, during the fall of 1959.

(3) The year 1958 saw the start of a project to assemble and compare a large group of annual bromegrasses against the standard Bromus arvensis (Field brome). The comparison was to find a type which had larger seed, less tenacious awns and which exhibited summer dormancy to the extent that germination would be delayed until the coming of the cool fall months. This would permit sowing at the last cultivation of corn and would eliminate competition between the cover crop and the main crop for moisture and light during the growing season. Out of the initial group planted in the fall of 1957, only two showed some of these characteristics. These will be retained and evaluated with approximately 100 more brome accessions which were planted during the fall of 1958. Performance ratings on this planting will be taken during the 1959 summer season.

(4) Establishment and Use of Lotus Uliginosus (Big Trefoil)

Most of the tests in the east of Big trefoil have been on dry land area and in comparison with Birdsfoot trefoil and alfalfa. There exists, however, throughout the east many low-lying wet pasture areas where it is thought that Lotus uliginosus could be used as a permanent legume. Initial planting on the Plant Materials Center began in 1957 and will continue for a period of several years, in an attempt to determine reliable methods for establishment of this legume alone and with grass. The considerations will include season of sowing, seedbed preparation, seeding equipment, fertilizer application and response, compatibility with grasses and management practices. So far early spring frost seedings and late August seedings appear favorable for this area.

(5) Reports indicate that some valuable species for windbreak plantings are being discarded because the percentage of establishment is too low. If some means could be found of producing these plants and getting good survival, they would not be discarded. Initial facilitating studies were started in 1958, here at Beltsville, to see if the use of sphagnum as a potting medium could be used to increase survival while holding down stock transportation and handling costs. Part of the techniques will be worked out in greenhouse plantings and accompanied by field planting survivals in later years. This study will include considerations of potting materials, containers, fertilizer requirements, size of potting stock as well as root development studies.

National Plant Materials Center
Beltsville, Maryland

1958 Grass Plantings (Field)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few	B - Basal	P - Poor
	A - Annual	E - Erect	D - Distributed	
		P - Prostrate		

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Habit	Hd. Ht.	Ht. Sprd.	Seed
8669-56	238225	AGROPYRON scabriglume	C H P	Cross	F E	F D	G	28	18x7	Sept.
8668-56	238223	semicostatum	C H P	Cross	F E	F D	P	18	12x5	July-Aug.
9027-57		ANDROPOGON littoralis	W H P	Cross	A E	A D	F	24	10x12	
9170-57		littoralis	W H P	Cross	A E	A D	--	--	30x11	Too late
8674-56	238229	paniculatus	W T P	---	A E	F D	G	30	25x5	Sept.
7659-51	199240	pertusus	W T P	---	A E	A D	G	42	24x36	Aug-Oct.
8677-56	238232	ASTREBLA pectinata	W T P	Self	F E	F D	P	26	24x10	Late Oct.
3977-50	151838	BRACHIARIA erucaeformis	W A	---	A P*	A D	G	20	11x27	July-Oct.
8681-56	238233	lata	W T P	---	A P*	A D	P	32	32x24	Oct.
8683-56	238238	BRACHYACHNE convergens	W T P	Self	A P*	A D	G	8	6x44	Oct.
6209-57	185134	BRACHYPODIUM distachyon	C A	Self	F E	F B	F	5	2x4	June-July
8688-56	238243	BROMUS briziformis	C H A	Self	F E	A D	G	12	10x9	Late June
5320-51	168555	catharticus	C H Bi.	Clistog.	F E	A D	G	32	24x12	Aug. & Oct.
8696-56	238251	stamineus	C T P	Cross	F E	A B	G	18	8x18	Sept.
7692-56	193444	CENCHRUS setigerus	W T P	Apomic.	A E	A D	G	30	20x30	July-Sept.
9178-57	245370	setigerus	W T P	Apomic.	A E	A D	G	24	14x16	July-Sept.
8703-56	238258	CHLORIS acicularis	W T P	---	A E	A D	P	36	30x16	Sept.
8705-56	238260	pectinata	W T P	---	F E	F D	F	10	7x10	July-Oct.
8706-56	238262	scariosa	W T P	---	A E	F D	F	12	10x6	July-Oct.
8716-56	238272	CHRYSOPOGON exaltatus	W T P	Cross	A E	A D			28x36	Too late
9334-57		DACTYLOCTENIUM aegyptium	W A	Self	F P*	F D	G	12	12x24	Aug-Oct.
9335-57		aegyptium	W A	Self	A E	F D	P	14	8x8	Aug-Oct.

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few	B - Basal	P - Poor
	A - Annual	E - Erect	D - Distributed	
		P - Prostrate		

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed Habit	Hd. Ht.	Ht. Sprd.	Seed
8723-56	238279	DANTHONIA curva	C T ?	Cross	F P	F D	P	9	3x5	July-Sept.
8726-56	238282	semiannularis	C T P	Self	F E	A D	P	8	6x6	Sept.
8727-56	238283	stricta	C A?	---	F E	F D	P	6	2x3	Died
8728-56	238284	DICHANTHIUM sericeum	W T P	Cross	A E	A D	F	30	14x11	July-Sept.
8729-56	238285	superciliatum	W T P	---	F E	A B	P	30	24x24	Aug-Oct.
8730-56	238286	DIGITARIA brownei	W T P	Self	A E	F D	G	21	12x12	Aug-Sept.
8732-56	238288	iburua	W T P	Self	A E	A D	G	50	42x28	Dec.
7256-50	196348	pentzii	W T P	---	A E	A D	F	60	24x42	Aug-Oct.
7257-50	196349	pentzii	W T P	Cross	A E*	A D	G	65	36x36	Aug-Oct.
8733-56	238289	pentzii	W T P	---	A E*	A D	G	32	20x72	Sept-Oct.
7248-50	196340	setivalva	W T P	---	A E*	A D	G	70	32x60	Sept-Oct.
7249-50	196341	setivalva	W T P	---	A E*	A D	G	72	36x48	Sept-Oct.
8734-56	238290	swazilandensis	W T P	---	A E	A D	F	48	24x50	Oct.
9179-57	245371	ELEUSINE flagellifera	W T P	Cross	F E*	F D	F	18	14x10	Aug-Sept.
7549-50	196853	floccifolia	W T P	Cross	A E	A D	P	40	30x18	Sept-Oct.
9337-47		indica	W A	Self	A P	A D	G	14	12x36	Aug-Sept.
8737-56	238293	ENNEAPOGON avenaceus	W A	Self	F E	F D	G	12	8x4	July-Oct.
8738-56	238294	flavescens	W A	Self	A E	F D	G	38	18x14	July-Oct.
8739-56	238295	lindleyanus	W T P	Self	F E	F B	G	12	8x6	Aug-Oct.
8740-56	238296	nigricans	W T P	Self	F E	F D	G	12	8x9	Aug-Oct.
8741-56	238297	oblongus	W T P	Self	A E	F D	F	26	14x14	Oct.
9328-56		pallidus	W A	Self	F E	F D	G	24	11x8	Aug-Sept.
8742-56	238298	polyphyllus	W A	Self	F E	F D	P	12	6x7	July-Sept.
9310-56		ERAGROSTIS brownei	W A	Self	F E	F B	F	12	3x5	July-Sept.
9327-52		curvula v. conferta	W H P	Self	A E	A D	F	36	21x20	July-Sept.
6864-51	190315	echinochloides	W T P	---	A E	A D	G	40	26x30	Sept-Oct.
8747-56	238303	leptocarpa	W A	Self	A E	A D	G	25	14x15	July-Sept.
8749-56	238305	tremula	W T P	Self	A E	F B	G	35	8x16	Aug-Sept.

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few	B - Basal	P - Poor
	A - Annual	E - Erect	D - Distributed	
		P - Prostrate		

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Habit	Hd. Ht.	Ht. Sprd.	Seed
8752-56	238308	ERIACHNE helmsii	W P	---	A E	F D	--	22	14x20	Too late
8754-56	238310	pulchella	W A	---	F E	F D	P	4	2x2	Aug-Sept.
8755-56	238311	ERIOCHLOA nubica	W A	---	A E	A D	F	60	50x60	Sept.
8756-56	238312	pseudo-acrotricha	W T P	Self	A E	F D	F	36	16x10	July-Sept.
8757-56	238313	FESTUCA abyssinica	C A	Self	F E	F B	F	24	5x3	July
7685-53	199943	HYPARRHENIA hirta	W T P	---	A E	A B	P	72	50x48	Sept.
8763-56	238319	hirta	W T P	---	A E	A B	G	60	40x30	Aug-Sept.
8765-56	238322	ruprechtii	W T P	---	F E	F B	P	40	8x20	Aug-Sept.
8776-56	238333	LASIOCHLOA hispida	C P	---	--	--	--	--	3x2	Died
8782-56	238340	MICROLAENA stipoides	W T P	Self	A P	F D	P	10	6x7	July-Sept.
8784-56	238342	NEURACHNE mitchelliana	W T P	---	A E	A D	P	18	10x8	Aug-Sept.
8786-56	238344	PANICUM cymbiforme	W A	Cross	A E	A D	F	72	60x48	Sept-Oct.
8787-56	238345	decompositum	W T P	---	A E	F D	F	30	20x18	July-Sept.
8788-56	238346	lilongwe	W T P	---	A E	A D	F	84	66x36	Sept.
7276-50	196368	stapfianum	W T P	---	A E*	F D	P	36	22x28	Sept-Oct.
9181-57	245373	turgidum	W T P	Cross	A E	F D	P	23	10x12	No fill
9182-57	245374	PENNISETUM ciliare	W T P	Self	A E	A D	F	32	20x28	July-Sept.
9183-57	245375	ciliare	W T P	Self	A P	A D	G	10	7x14	July-Sept.
9325-47		ciliare	W T P	Apomic.	A E	A D	F	28	22x18	Aug-Sept.
9326-47		ciliare	W T P	Apomic.	A E	A D	F	26	18x40	Sept.
9702-47		ciliare	W T P	Self	A E	A D	G	40	32x32	Aug-Oct.
7689-53	199953	sp.	W T P	Self	A E	A D	P	45	33x26	Aug-Oct.
8789-56	238347	PENTASCHISTIS thunbergii	W T P	---	F P	A B	P	6	3x12	Sept.
8981-55	223396	PHALARIS canariensis	C A	Self	F E	F D	F	18	8x5	July
8982-55	223398	canariensis	C A	Self	F E	F D	F	24	10x7	July
8791-56	238349	PLAGIOSETUM refractum	W A	---	F E	F D	P	15	10x10	Sept.
8919-56	240478	POA caespitosa	C H P	Cross	---	A B	--	--	16x10	Not '58
8920-56	240479	caespitosa	C P	Won't tolerate this climate					4x4	

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few	B - Basal	P - Poor
	A - Annual	E - Erect	D - Distributed	
		P - Prostrate		

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Habit	Hd. Ht.	Ht. Sprd.	Seed
8921-57	240480	POA caespitosa	C H P	Won't tolerate this climate					3x5	
8922-57	240481	caespitosa	C P	"	"	"	"		2x2	
8923-57	240482	caespitosa	C H P	"	"	"	"		8x8	
8924-57	240483	caespitosa	C P	"	"	"	"		6x4	
8925-57	240484	caespitosa	C H P	"	"	"	"		3x4	
8926-56	240485	caespitosa	C T P	"	"	"	"		14x8	
9339-47		SETARIA sphacelata	W T P	Cross	A E	A D	G	60	32x32	Aug-Sept.
9016-56		SORGHUM almum	W H P	Self	A E	A D	G	98	66x36	Sept.
8797-56	238355	intrans	W A	Self	A E	A B	F	36	24x20	Dec.
8798-56	238356	laxiflora	W A	Self	A E	A D	F	36	36x18	Dec.
8799-56	238357	plumosum	W T P	---	F E	F B	--	--	36x20	Too late
8800-56	238358	stipoideum	W A	---	A E	A D	--	--	70x24	Too late
7596-51	198597	SPOROBOLUS fimbriatus	W H P	---	A E	A B	F	38	24x24	Aug-Sept.
7972-56	237812	STIPA formicarum	C H P	---	F E	A B	P	30	15x6	Aug-Sept.
7701-53	199976	TETRAPOGON macranthus	W A	---	F P	A D	G	4	3x10	Sept-Oct.
8802-56	238360	THEMEDA australis	W T P	---	A E	A B	P	40	14x11	Sept-Oct.
5213-56	166381	TRICHOLAENA monachne	W T P	---	A P*	F D	G	36	30x70	Sept-Oct.
8717-56	238273	repens	W T P	Cross	A E*	A D	F	36	24x72	Oct.
8815-56	238373	TRIRAPHIS mollis	W T P	---	F E	F D	G	36	20x16	Sept-Oct.

National Plant Materials Center
Beltsville, Maryland

1958 Grass Plantings (Greenhouse)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few	B - Basal	P - Poor
	A - Annual	E - Erect	D - Distributed	
		P - Prostrate		

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Habit	Hd. Ht.	Ht. Sprd.	Seed
8671-56	238226	AGROSTIS pallida	C A	Cross	A E	A D	F	20	10x7	May
8672-56	238227	ALOPECURUS utriculatus	C A	Cross	A E	A D	F	14	8x10	April
7999-57		BROMUS rigidus	C A	Self	F E	A B	F	24	10x11	Aug.
8701-56	238256	CATAPODIUM tenellum	C A	Self	A E	A B	P	11	5x6	May
8702-56	238257	tuberculosum	C A	Self	A E	F D	G	40	24x10	May
8715-56	238271	CUTANDIA maritima	C A	Self	A E	A D	G	22	12x10	May
8718-56	238274	CYNOSURUS elegans	C T A	Self	A E	A D	G	18	9x9	May
8645-56	237160	DANTHONIA unarede	C P	Cross?	A E	F D	P	24	8x14	July-Aug.
8745-56	238301	ERAGROSTIS dielsii	W P	Self	A E	F D	G	14	12x18	July
8758-56	238314	FESTUCA alopecurus	C A	Cross	A E	F D	F	40	12x10	May
8760-56	238316	GAUDINIA fragilis	C A	Cross	A E	A D	F	24	11x11	May
8764-56	238320	HYPARRHENIA lintonii	W T P	Cross	A E	A D	F	30	26x40	Jan.
8775-56	238332	LASIOCHLOA echinata	C A	Cross?	A E	F B	G	9	5x14	June
8790-56	238348	PEROTIS rara	W A	Self	A E	F D	P	6	3x3	May-Aug.
8522-55	233268	PHALARIS paradoxa	C A	Self	F E	F B	F	32	15x11	May
8647-56	237162	POA acicularifolia	C P	---	A P*	A D	--	--	2x6	
8648-56	237163	lindsayi	C T P	Self	F E	A B	P	8	2x4	Apr.& Sept.
8649-56	237164	maniototo	C T P	Self	A P	A B	P	5	2x6	May-July
8651-56	237166	PUCCINELLIA stricta	C T P	---	F E	A B	P	10	9x12	June & Sept.

National Plant Materials Center, Beltsville, Maryland

1958 Legume Plantings (Field)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few		P - Poor
	A - Annual			

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Habit	Ht. Sprd.	Seed
8935-57	241039	ASTRAGALUS bisculatus	C H A	---	F	F	---	7x12	Root rot, died
8936-57	241040	canadensis v. brividens	C H P	---	---	---			
8937-57	241041	lentiginosus v. tremulatorum	C H P	---	F	F	---	8x12	Crown rot
8697-56	238252	CASSIA artemisioides	W T P	---	Shrub	F	---	10x12	Winter killed
8698-56	238253	pleurocarpa	W T P	Self	Shrub	F	---	47x50	Winter killed
9242-58		CORONILLA varia	C H P	Self	A	A	Fair	36x60	Aug.
8735-56		DORYCNIUM sp.	C T P	---	F	A	---	12x18	Winter killed
8663-56		EVODIA daniellii	Tree, bee food--shipable as 1-0. Seed strat. 30 days						
7899-51		HEDYSARUM procumbens	C T.P	---	A	A	Winter killed, no bloom		
8768-56	238324	INDIGOFERA australis	W T P	---	F	A	---	14x10	Winter killed
8772-56	238328	hirusta	W A	---	A	A	Too late	25x60	
8773-56	238330	subulata	W T P	---	A	A	Too late	30x60	Winter killed
6273-57	186171	LESPEDEZA cuneata	W H P	Self	A	A	Fair	8x40	Oct.
7914-52		LOTUS suaveolens	C T P	---	A	A	Good	4x30	July & Oct.
8779-56	238337	tenuis	C H P	Cross	A	F	Good	4x40	July & Oct.
6330-57		weilleri	C A	---	F	A	Good	10x30	July-Aug.
8501-55	233247	MEDICAGO ciliaris	C A	Self	F	F	Fair	18x24	Apr-May
8502-55	233248	coronata	C A	Self	A	F	Good	2x16	Apr-May
8954-56		hemicycla	C H P	Cross	A	A	Fair	7x30	Aug.
8955-56		platycarpa	C H P	Apparently crown rot				8x20	All died
5715-49	188898	PHASEOLUS speciosus	W T P	Cross	A	A	No flrs.	10x84	Too late
8793-56	238351	PSORALEA adscendens	W T P	---	A	F	Poor	12x30	Oct.

National Plant Materials Center, Beltsville, Maryland

1958 Plantings--Legumes and Other (Field)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few		P - Poor
	A - Annual			

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Hbt.	Spr'd.	Seed
8794-56	238352	PSORALEA bituminosa	W T P	---	A	A	Good	40x50	Sept.
8795-56	238353	cinerea	W T P	---	F	F	Fair	40x60	Sept.
8872-56	239889	SCORPIURUS muricata	C A	---	F	F	Poor	4x16	Sept.
7399-50	197558	STYLOSANTHES gracilis	W A	---	F	F	Poor	11x18	Oct.
7400-50	197559	gracilis	W A	---	F	F	Poor	8x8	Oct.
7398-50	197557	gracilis v. subviscosa	W A	---	A	F	Good	3x22	Oct.
5399-46	168635	TRIFOLIUM cherleri	C A	Self	A	A	Fair	2x8	May
8807-56	238365	isodon	C A	Self	F	F	Fair	13x6	July
7141-50	193744	lugardii	C A	Self	A	A	Poor	6x18	July
8606-55	235521	meneghinianum	C A	Cross?	A	A	---	4x32	---
8811-56	238369	pallidum	C A	Cross	A	A	Fair	14x30	July
9196-55		pratense	C H P	Cross	A	A	Good	15x36	Aug-Sept.
8535-55	233284	resupinatum	C A	Self	A	A	Good	4x20	May
8942-57	241080	VICIA americana	C H P	---	*F	F	Not for this clim. Discard.		
8943-57	241081	americana	C H P	---	*F	F	" " "	"	"
8824-56	238382	angustifolia v. segetalis	C A	Self	F	F	Fair	6x12	July
8825-56	238383	angustifolia v. segetalis	C A	Self	F	F	Fair	6x15	July
6002-50	183097	disperma	C A	Self	A	A	Poor	4x18	July-Aug.
6360-48	183357	fulgens	C A	Self	A	A	Good	6x36	July
6004-48	183099	hirsuta	C A	Self	F	A	Fair	3x10	July
6005-48	183100	hirsuta	C A	Self	F	F	Good	3x10	July
7481-50	198023	hirsuta	C A	Self	A	A	Fair	2x8	June-July
8820-56	238378	ludoviciana	C P	Self	F	F	Poor	8x12	July
8821-56	238379	macrocarpa	C A	Self	F	F	Poor	6x12	July
7970-52		VIGNA cylindrica	W A	---	A	A	Good	12x45	Sept.

National Plant Materials Center, Beltsville, Maryland

1958 Plantings--Legumes and Other (Field)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hard	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few		P - Poor
	A - Annual			

BH No.	PI No.			Growth Habit		Pollination	Stems	Lvs.	Seed. Habit	Ht. Sprd.	Seed
6363-48	186360	VIGNA	sinensis	W	A	---	A	A	Good	20x50	Sept.
6362-50	186359		sinensis	W	A	---	A	A	Poor	20x108	Oct.
5913-51	181584		triloba	W	A	---	A	A	Fair	50x50	Oct.
5914-51	181585		wilmsii	W	A	---	A	A	Fair	12x144	Oct.

National Plant Materials Center, Beltsville, Maryland

1958 Plantings--Legumes and Other (Greenhouse)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few		P - Poor
	A - Annual			

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed Habit	Lt. Sprd.	Seed
8479-55	233225	ASTRAGALUS boeticus	C A	Self	F	F	Poor	10x16	Apr.
5709-49	188892	CALOPOGONIUM mucunoides	W T P	Self	A	A	Good	108x40	Mar-Apr.
5712-49	188895	mucunoides	W T P	Self	A	A	Good	60x48	Mar-Apr.
8708-56	238263	CLIANTHUS formosus	W T P	" fert.,orn. only			Fair	16x30	Sept-Nov.
8712-56	238268	CROTALARIA sericea	W P	Self	F	A	Fair	60x34	Nov.
1894-53		DESMODIUM canadense	W P	Self	A	A	Good	30x24	Sept.
8493-55	233239	HEDYSARUM pallens	C A	Self	F	F	Poor	3x14	May
8772A-56	238329	INDIGOFERA retroflexa	W T P	Self	F	F	Poor	60x36	Dec.
8777-56	238334	LOTUS conibricensis	C A	Self	A	A	Good	2x18	May
8778-56	238335	perigrinus	C A	Self	A	A	Good	7x16	Apr.
8778A-56	238336	pusillus	C A	Self	F	F	Good	7x18	Apr.
8499-55	233245	LUPINUS hirsutus	C A	---	F	A	Poor	6x8	Apr.
5983-57	181993	sp.	C A	Self	F	F	Poor	16x16	July
8500-57	233246	MEDICAGO blancheana	C A	Self	F	A	Fair	10x18	May
8503-55	233249	hispida	C A	Self	A	F	Good	3x18	Apr-May
9200-55		hispida	C A	Self	F	A	Good	6x36	Apr.
8506-55	233252	rigidula	C A	Self	A	F	Good	4x40	May-June
8507-55	233253	rotata	C A	Self	A	F	Fair	5x18	Apr-May
8508-57	233254	rugosa	C A	Self	A	A	Good	6x30	Apr.
3640-51		ruthenica	C H P	Cross	*A	A	Fair	10x50	Oct.
8509-55	233255	scutellata	C A	Self	F	F	Good	20x24	Apr-June
8510-57	233256	tuberculata	C A	Self	A	A	Fair	60x30	May
8781-56	238339	MELILOTUS gracilis	C A	Self	F	A	Fair	32x12	Apr-May
8512-55	233258	ONOBRYCHIS caput-galli	C A	Self	F	F	Poor	20x26	Apr.

National Plant Materials Center, Beltsville, Maryland

1958 Plantings--Legumes and Other (Greenhouse)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few		P - Poor
	A - Annual			

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Habit	Ht. Sprd.	Seed
8514-54	233260	ONONIS alopecuroides	C A	Self	F	A	Good	12x20	May-June
8587-57	244319	biflora	C A	Self	F	F	Fair	17x15	May-June
8516-55	233262	pubescens	C A	Self	F	A	Good	24x24	May-July
8518-55	233264	sicula	C A	Self	F	A	Poor	7x7	Apr-July
7554-56		PAROCHETUS communis	C A	Self	*A	A	Fair	6x30	Nov. & May
6715-49	188898	PHASEOLUS speciosus	W T P	Cross	A	A	Poor	To 25'	Feb-Mar.
8796-56	238354	PSORALEA patens	W T P	Cross?	F	F	Poor	36x36	Aug-Oct.
4950-47	153098	RHYNCHOSIA reticulata	W T P	Self	A	A	Fair	Vine to 5'	Jan.-Feb.
6348-48	186345	SESBANIA paulensis	W A	Self	F	A	Good	48x120	Dec.
5095-47	164260	TEPHROSIA candida	W T P	Self	F	F	Poor	84x36	Feb-Mar.
5394-45	168630	candida	W T P	Self	F	F	Poor	120x48	Mar-Apr.
8801-56	238359	TETRAGONOLOBUS purpureus	C A	"fert.	F	F	Fair	8x28	May-July
8525-55	233272	TRIFOLIUM campestre	C A	Self	A	A	Good	2x9	May
8527-55	233273	cherleri	C A	Self	A	F	Good	7x20	May
8528-54	233274	clypeatum	C A	fert.	A	F	Fair	8x22	Apr-May
8530-55	233276	dichroanthum	C A	Cross	F	F	Poor	15x8	July-Aug.
7958-57		diffusum	C P?	Self	A	A	Poor	9x30	Aug-to Dec.
8804-56	238362	diffusum	C A	Self	A	F	Good	22x30	June
8805-56	238363	echinatum	C A	Self	A	F	Good	8x22	May
8806-56	238364	echinatum	C A	Cross	A	F	Fair	7x22	June
8531-55	233277	formosum	C A	Self	A	F	Fair	10x20	May
8808-56	238366	maritimum	C A	Self	A	A	Good	4x23	May
8809-56	238367	meneghinianum	C A	Cross	A	A	Fair	5x30	July
8533-55	233279	palaestinum	C A	Self	A	F	Good	26x15	May
8810-56	238368	petrisavii	C A	Self	A	A	Good	2x15	May

National Plant Materials Center, Beltsville, Maryland

1958 Plantings--Legumes and Other (Greenhouse)

Season	Growth Habit	Stems	Leaves	Seeding Habit
C - Cool	T - Tender	* - Stoloniferous	A - Abundant	G - Good
W - Warm	H - Hardy	A - Abundant	F - Few	F - Fair
	P - Perennial	F - Few		P - Poor
	A - Annual			

BN No.	PI No.	Species	Growth Habit	Pollination	Stems	Lvs.	Seed. Habit	Ht. Sprd.	Seed
8534-57	233280	TRIFOLIUM pilulare	C A	Self	A	A	Fair	6x14	Apr.
8540-55	233285	purpureum	C A	Cross	A	A	Fair	10x22	None
3812-56	238370	purpureum	C A	Cross	A	A	Fair	20x32	June-July
8813-56	238371	purpureum	C A	Self	F	F	Good	5x12	May
8536-55	233281	scabrum	C A	Self	A	A	Fair	3x20	May-June
1170-51	199369	stolzii	C T P	Cross	A	A	Poor	4x30	None
8814-56	238372	strictum	C A	Self	A	A	Good	4x16	May
5403-44	188639	tomentosum	C A	Self	A	A	Good	4x16	July
7208-49	194475	tomentosum	C A	Self	A	A	Good	4x5	June-July
7495-50	198100	tomentosum	C A	Self	A	A	Fair	4x12	July
8538-55	233283	tomentosum	C A	Self	A	A	Good	2x11	May
8539-54	233285	xerocephalum	C A	Cross	A	F	Fair	3x21	None
8541-57	233287	xerocephalum	C A	Cross	A	A	Fair	4x18	None
7139-50	193748	sp. Aff. T. subrotundun	A	Self	A	A	Poor	7x20	June-Oct.
7209-49	194476	TRIGONELLA arabica	C A	Self	F	F	Poor	6x2	June
8816-56	238374	VICIA articulata	C A	Self	A	A	Good	7x30	May
8817-56	238375	cornigera	C A	Self	A	A	Good	30x40	May-June
8597-57		~~erviformis~~ disperma C+PKt	C A	Self	A	F	Good	18x36	July
8819-56	238377	hybrida	C A	Self	A	A	Good	7x24	Apr.
8822-56	238380	narbonensis	C A	Self	F	F	Good	30x12	Apr.
8823-56	238381	obscura	C P	Self	A	F	Good	16x40	Sept-Dec.
5351-48	186358	scandens	C P	Self	A	A	Died	6x24	None
4401-47		tetrasperma	C A	Self	A	A	Poor	12x24	July-Sept.
6954-50	192968	VIGNA marina	W T P	---	A	A	Poor	120x36	Jan.
6952-50	192966	vexillata	W T P	Self	A	A	Poor	108x48	Dec-Mar.
7143-50	193746	vexillata	W T P	Self	A	A	Poor	108x48	Dec-Mar.

National Plant Materials Center
Beltsville, Maryland

Domestic Distribution of Seed in 1958
to the Cornbelt Area

Species		BN No.	PI No.
AGROPYRON intermedium	Amur	6091-56	
intermedium	Greenar	8382-54	
intermedium	Idaho #3	9163-57	
intermedium	Nebr. 50	9164-57	
intermedium	Ree	9165-56	
trachycaulum	Primar	3931-56	
trichophorum		6388-49	107328
trichophorum	Topar	8384-56	
trichophorum		9160-52	106831
trichophorum	Utah 109	9161-57	
trichophorum	Mandan 759		
AGROSTIS tenuis v. oregonensis		6822-49	
ALOPECURUS arundinaceus	Garrison	8558-56	
arundinaceus		8575-56	
pratensis		5981-53	
ANDROPOGON gerardi	Kaw	3388-54	
gerardi		9151-56	
hallii	Woodward	8949-54	
scoparius		4491-54	
ARRHENATHERUM elatius		5283-48	
BROMUS altissimus		7991-53	
CHAMOVILFA gigantea		7555-51	
CHAMAECRISTA fasciculata		6659-49	
fasciculata		7028-49	
fasciculata		7050-50	
CLITORIA ternatea		9411-57	227163
COLUTEA arborescens		8350-54	
CORONILLA varia		NK-369-55	
varia		2575-44	121119
varia		2576-44	121114
varia		5201-47	
varia		8094-51	
DACTYLIS glomerata	Brage	7073-55	
glomerata	Akaroa	8326-57	
glomerata	Latar	8847-55	
ELYMUS canadensis		3009-53	
giganteus		5432-51	
junceus		9083-48	
mollis		8559-52	
triticoides		3577-52	
virginicus v. glabriusculus		3041-53	
ERAGROSTIS trichodes		307-49	
trichodes		3642-49	
FESTUCA arundinacea		3307-52	
arundinacea	Tweedale	7215-53	
elatior		2905-52	
elatior		3681-52	
elatior		6752-57	
elatior		7483-53	

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Cornbelt Area

Species	BN No.	PI No.
FESTUCA rubra	6718-53	
rubra	5755-52	
rubra	5756-52	
rubra	7015-53	
rubra	7313-53	
rubra Illahee	NY-9[illegible]-54	
rubra	8037-53	237803
LATHYRUS incanus	4555-47	
latifolius	11[illegible]3-51	
maritimus	4320-46	
sylvestris	2753-50	
sylvestris	7035-[illegible]	
tingitanus	7011-50	
LESPEDEZA bicolor Natob	8379-55	
LOLIUM multiflorum	7076-50	
perenne	7077-50	
remotum	6236-47	
LONICERA maackii	8419-57	
syringantha	8318-57	
LOTUS corniculatus	5489-47	
corniculatus	5973-48	183770
corniculatus	6249-49	
corniculatus	7036-50	
corniculatus	7117-50	193725
corniculatus Cascade	8189-51	
corniculatus European	8618-55	
corniculatus Payette	9084-56	
corniculatus Los Banos	9141-57	
uliginosus	5233-46	
uliginosus	6906-51	190633
uliginosus	8555-55	
uliginosus v. glabriusculus	7126-50	
uliginosus v. villosus	7127-51	
ONOBRYCHIS viciaefolia	9418-57	237089
sp.	9419-57	236486
ORNITHOPUS sativus	9602-56	
PANICUM amarulum	2258-53	
amarulum	8360-57	
virgatum Blackwell	308-55	
virgatum	5101-48	
virgatum	6969-51	
virgatum	9149-57	
PHALARIS arundinacea	8455-55	
arundinacea	9006-	
arundinacea	9007-56	
arundinacea	9176-57	
POA ampla Sherman	8372-54	

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Cornbelt Area

Species			BN No.	PI No.
SORGHASTRUM	nutans		4500-57	
	nutans		8373-53	
	nutans		9054-57	
SORGHUM	vulgare sudanense	Sweet 372	9166-57	
	vulgare sudanense	Greenleaf	9167-57	
	vulgare sudanense	Tift	9168-57	
STIPA	neesiana		7977-57	237818
	splendens		3359-57	147820
	splendens		3360-58	147821
STIPORYZOPSIS			9148-57	
STROPHOSTYLES	helvola		8565-57	
VICIA	cracca		6990-51	
	lathyroides	LeConte	6044-50	
	leavenworthii		5232-47	
	pannonica		6157-49	
	sativa		6158	
	sativa	Willamette	6159-49	
	sativa		6429-49	
	sativa	Doar 1	6993-50	
	sativa		8089-51	201882
	sativa		8090-52	201883
	villosa		6150-49	
	villosa		8125-51	203168
	villosa	Cerdagne	8209-52	205158

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Great Plains Area

Species	BN No.	PI No.
AGROPYRON acutum	8667-56	238222
cristatum	9138-57	172590
scabriglume	8669-56	238225
trichophorum	9123-57	206625
trichophorum	9124-57	210990
trichophorum	9126-57	220498
trichophorum	9127-57	229674
sp.	9125-57	229576
ALOPECURUS arundinaceus	9375-58	219935
arundinaceus	9376-58	220610
arundinaceus	9128-57	204401
arundinaceus	9129-57	204404
arundinaceus	9130-57	205280
arundinaceus	9131-57	206400
arundinaceus	9132-57	227499
arundinaceus	9133-57	229480
arundinaceus	9134-57	229524
sp.	9135-57	229525
sp.	9136-57	229745
sp.	9137-57	237637
ANDROPOGON lateralis	8673-56	238228
paniculatus	8674-56	238229
BOSSIAEA foliosa	8679-56	238234
BOTHRIOCHLOA insculpta	9304-57	245334
BROMUS valdivianus	9538-58	211856
CENCHRUS setigerus	9178-58	245370
CHLORIS myriostachya	8704-56	238259
scariosa	8706-56	238262
CLITORIA ternatea	9411-57	227153
DACTYLIS glomerata	8079-55	201887
DANTHONIA caespitosa	8722-56	238278
frigida	8724-56	238280
DICHANTHIUM sericeum	8728-56	238284
superciliatum	8729-56	238285
ELEUSINE flagellifera	9179-57	245371
ELIONURUS hirsuta	9180-57	245372
ENNEAPOGON nigricans	8740-56	238296
ERAGROSTIS expansa	8744-56	238300
ERIACHNE ciliata	8751-56	238307
helmsii	8752-56	238308
HYPARRHENIA lintonii	8764-56	238320
rufa	8765-56	238321
subplumosa	8767-56	238323
INDIGOFERA endecaphylla	9600-57	238112
MALUS baccata	9858-58	122586
sp.	9859-58	99907
NEURACHNE alopecuroides	8783-56	238341
mitchelliana	8784-56	238342

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Great Plains Area

Species	BN No.	PI No.
ONOBRYCHIS viciaefolia	9418-57	237089
sp.	9419-57	236486
PANICUM turgidum	9181-57	245373
PENNISETUM ciliare	9182-57	245374
ciliare	9183-57	245375
PHALARIS daviesii	9510-57	251434
PIPTOCHAETIUM montevidense	9264-57	247076
PSORALEA adscendens	8793-56	238351
bituminosa	8794-56	238352
cinerea	8795-56	238353
patens	8796-56	238354

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Northeast Area

Species	BN No.	PI No.
AGROPYRON elongatum	8380-53	
~~kamoji~~ sem. costatum	8668-56	238223
subulatum	8930-57	204379
ugamicum	8670-56	238224
AGROSTIS canina	7153-58	194698
ALOPECURUS arundinaceus	8558-56	
arundinaceus	8575-56	110067
arundinaceus	9728-57	204401
arundinaceus	9729-57	204404
arundinaceus	9730-57	205280
arundinaceus	9731-57	206400
arundinaceus	9732-57	227499
arundinaceus	9733-57	229480
arundinaceus	9734-57	229524
sp.	9735-57	229525
sp.	9736-57	229745
ANTHYLLIS vulneria	5972-58	182769
ARCTOSTAPHYLOS uva-ursi	8967-57	
ARRHENATHERUM elatius	9741-57	186791
ASTRAGALUS agrestis	5745-48	
BRACHYPODIUM mucronatum	3003-57	89817
phoenicoides	6291-49	186288
ramosus	8684-56	238239
BROMUS adoensis	7992-57	
arduennensis	7989-57	
arvensis Svalof	9344-57	250066
breviaristatus	8687-56	238242
cappadocicus	5323-57	168559
erectus	2892-57	111279
inermis	2893-57	98927
polyanthus	8693-56	238248
ramosus	8694-56	238249
sitchensis	8695-56	238250
valdivianus	9638-58	211856
COLUTEA arborescens	8350-58	
CORONILLA varia	4314-57	
DACTYLIS glomerata	9402-58	230116
DORYCNIUM herbacium	8281-57	206558
ELAEAGNUS umbellata	270-57-58	
ELYMUS giganteus Volga	5432-51	
triticoides	3567-52	
ERAGROSTIS curvula	2523-56	
curvula	9980-58	208091
ferruginea	4787-57	161676
ERIANTHUS ravennae	8009-56	237795
FESTUCA arundinacea Tweedale	7215-53	
arundinacea	6620-58	
arundinacea	8491	233237
arundinacea Ore. 4-36	9237-57	
arundinacea Ky.-59-Gl-32	9238-57	
arundinacea Asheville	9239-57	
FINGERHUTHIA sesleriaformis	8151-57	203354

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Northeast Area

Species	BN No.	PI No.
GALEGA officinalis	7603-53	198929
INDIGOFERA pseudo-tinctoria	2295-55	
pseudo-tinctoria	7473-55	197015
LATHYRUS japonicus	8550-56	
latifolius	1173-57	
latifolius	8552-58	
LESPEDEZA bicolor Natob	7598-58	
bicolor Natob	8124-58	
bicolor Natob	8379-57	
cuneata	6273-57	
japonica intermedia	3532-57	
LONICERA maackii podocarpa	8313-57-58	
maackii	8419-56-57	
syringantha	8318-57	
LOTUS corniculatus	9403-57	234692
corniculatus	9404-57	234786
corniculatus	9405-57	229569
uliginosus	2571-57	103483
uliginosus v. glabriusculus	7126-51	
MEDICAGO falcata	5256-48	163394
falcata media	4651-47	
falcata media	5748-48	
falcata media	5749-48	
hemicycla	8954-58	
ruthenica	3540-58	
sativa x falcata	2474-53	
varia	8780-56	238338
PANICUM anceps	8456-57	
clandestinum	8454-58	
virgatum Blackwell	308-55	
virgatum Nebr. 28	5446-56	
virgatum Caddo	8617-56	
virgatum	8627-56	
virgatum	8628-56	
virgatum	8629-56	
virgatum	8630-56	
virgatum	8631-56	
PENNISETUM alopecuroides	339-57	
PHALARIS arundinacea Ioreed	5203-57	
arundinacea	9203-57	
PSORALEA bituminosa	8794-58	238352
STROPHOSTYLES helvola	8555-57	
TETRACHNE dregei	7595-56	198603
TRIFOLIUM repens	9370-58	234678
TRIPSACUM dactyloides	144-57	
VICIA andicola	7445-57	197872
sinhiangensis	5409-57	168645
VIGNA gracilis	7747-56	199355

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Southeast Area

Species	BN No.	PI No.
ADESMIA muricata	8556-56	238221
ALOPECURUS arundinaceus	8515-56	110067
ANDROPOGON insculptus	7716-51	199314
sp.	8286-52	209700
ANTHEPHORA pubescens	6450-52	185485
ARISTIDA altissima	9253-58	247074
ARGYROLOBIUM virgatum	7713-57	199311
ARRHENATHERUM elatius	6589-57	
thorei	6284-57	185281
ASTRAGALUS boeticus	8117-56	202242
boeticus	8479-58	233225
edulis	7859-56	244273
hamosus	7867-56	244274
hamosus	7873-57	244308
hamosus	7880-57	244275
hamosus	7885-56	244276
hamosus	8480-57	233226
scorpioides	7834-56	244277
stella	7882-57	244309
stella	7883-57	244310
ATRIPLEX semibaccata	9077-54	
AXONOPUS compressus	8535-56	237128
ulei	8578-56	238233
sp.	8536-56	237128
BRACHIARIA lata	8581-56	238236
ruziziensis	9255-57	247404
BOUTELOUA heterostega	8580-56	238235
BROMUS adoensis	7992-57	
altissimus	7996-57	
arduennsis	7989-57	
arvensis	3515-56	
arvensis	7071-50	
cappadocicus	5323-57	168559
erectus	2892-57	111279
erectus	5514-57	
catharticus	8196-57	202693
catharticus x hankeanus	8589-56	238244
catharticus x stamineus	8590-56	238245
catharticus x stamineus	8592-56	238247
haenkeanus	8197-58	202695
sitchensis	8513-58	202534
vernalis	8001-57	
CANAVALIA ensiformis	9348-58	250074
sp.	9275-57	247433
CASSIA artemisioides	8697-56	238252
hirsuta	9266-57	247405
pleurocarpa	8698-56	238253
sturtii	8699-56	238254

Domestic Distribution of Seed in 1958 to the Southeast Area

Species	BN No.	PI No.
CENTROSEMA pubescens	9267-57	247406
CHLORIS acicularis	8703-56	238258
pectinata	8705-56	238260
pilosa	8707-56	238261
CLIANTHUS formosus	8708-56	238263
CLITORIA ternatea	9411-57	227163
CORONILLA scopioides	7889-57	244311
varia	4314-49-50	
viminalis	7891-57	246729
CROTALARIA axillaris	9268-57	247407
brownei	8709-56	238264
grahamiana	8709-A-56	238265
grantiana	8659-56	68849
incana	1195-57	139181
incana	7892-57	
incana	9269-57	247408
intermedia	8710-56	238266
retusa	8711-56	238267
sericea	8712-56	238268
trifoliastrum	8713-56	238269
sp.	8714-56	238270
sp.	9276-57	247435
CYMBOPOGON exaltatus	8716-56	238272
sp.	8717-56	238273
CYNODON dactylon	9306-57	247675
CYPHOLEPIS yemenica	8719-56	238275
DACTYLIS voronowii	6311-57	186308
DACTYLOCTENIUM aegyptium	8071-51	201824
radulans	8720-56	238276
DANTHONIA curva	8723-56	238279
semiannularis	8726-56	238282
stricta	8727-56	238283
DESMODIUM gyroides	9597-57	237954
ovalifolium	9598-57	237955
DICHANTHIUM annulatum	6469-57	185504
DIGITARIA brownei	8730-56	238286
coenicola	8731-56	238287
iburua	8732-56	238288
kilimandscharica	7251-57	196343
pentzii	7252-57	196344
pentzii	8733-56	238289
uniglumis	9305-58	247840
valida	7250-57	196342
sp.	7792-56	200220
DOLICHOS lablab	9241-57	246129
DORYCNIUM herbacium	8281-58	206558
ECHINOCHLOA crusgalli v. frumentacea	8963-57	
polystachya	8736-56	238292
crus pavonis	8637-57	237129

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Southeast Area

Species	BN No.	PI No.
ELAEAGNUS umbellata	270-57	
ELEUSINE flagellifera	7662-56	199243
flagellifera	9179-57	245371
ELYMUS junceus	3010-57	29699
triticoides	3567-52	
ENTEROPOGON macrostachyus	8743-56	238299
ERAGROSTIS curvula	7587-57	198579
curvula	8097-57	202421
echinochloides	8964-57	
ferruginea	4787-57	161676
lehmanniana	7569-57	198581
leptocarpa	8747-56	238303
superba	4661-57	
superba	6480-57	185515
superba	6481-57	185516
superba	6482-57	185517
sp.	8626-57	
ERIANTHUS ravennae	8009-56	237795
ERIOCHLOA nubica	8755-56	238311
EULALIOPSIS binata	9595-57	244665
binata	9596-57	244666
GALEGA officinallis	7603-53	198929
HORDEUM bulbosum	7193-58	194460
HYPARRHENIA cymbreria	8133-52	203415
rufa	8134-51	203416
INDIGOFERA australis	8768-56	238324
cryptantha	8769-56	238325
endecaphylla	8770-56	238326
endecaphylla	9599-57	237140
endecaphylla	9600-57	238112
glandulosa	8771-56	238327
hirsuta	8772-56	238328
pseudo-tinctoria	2295-55	
pseudo-tinctoria	7473-55	197015
retroflexa	8772-A-56	238329
subulata	8773-56	238330
suffruticosa	9601-57	235643
tettensis	8774-56	238331
sp.	9270-57	247409
sp.	9277-57	247436
LATHYRUS japonicus	8560-56	
latifolius	1173-57	
LESPEDEZA bicolor Natob	8379-57	
japonica intermedia	3532-56	
LEUCAENA glauca	9307-58	247682
glauca x pulverulenta	9308-57	247683
LOTONONIS divaricata	8157-52	203360

Domestic Distribution of Seed in 1958 to the Southeast Area

Species	BN No.	PI No.
LOTUS conimbrecensis	8777-58	238334
edulis	8580-57	244281
ornithopodioides	6436-57	186952
peregrinus	8778-58	238335
pusillus	8778-A-58	238336
tenuis	8779-58	238337
uliginosus v. glabriusculus	7126-51	
weilleri	6330-57	186327
MEDICAGO arborea	7293-50	196803
aschersoniana	7699-57	199972
blancheana	8500-58	233245
ciliaris	7611-56	198959
ciliaris	8501-58	233247
coronata	8502-58	233248
falcata	5256-47	153394
hispida	7195-52	194452
hispida	7616-57	198964
hispida	7920-57	244314
hispida	7921-52	245740
hispida	7922-57	244283
hispida	7923-57	244312
hispida	7927-57	244313
hispida	7929-57	245741
hispida	7930-57	244315
hispida	8503-58	233249
laciniata	7924-57	244284
littoralis	8504-57	233250
muricata	7925-57	244282
orbicularis	7926-57	244316
orbicularis	8505-57	233251
platycarpa	8955-56	
rigidula	8506-57	233252
rotata	8507-57	233253
rugosa	8508-58	233254
scutellata	8509-58	233255
truncatula	8581-57	244285
truncatula v. tribuloides	7135-51	193738
truncatula v. tribuloides	7559-49	198662
truncatula v. tribuloides	7560-49	198663
tuberculata	8510-58	233256
turbinata v. aculeata	7931-57	244318
MELILOTUS gracilis	8781	238339
indica	7735-57	244286
italica	7934-57	244287
messamensis	7618-57	198966
MICROLAENA stipoides	8782-58	238340
ONOBRYCHIS caput-galli	8512-57	233258
squarrosa	8513-57	233259

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Southeast Area

Species	BN No.	PI No.
ONONIS alopecuroides	8514-58	233260
biflora	8587-58	244319
mitissima	7941-56	244320
natrix	8588-57	246743
ornithopodioides	8515-57	233261
pubescens	8516-57	233262
reclinata	8517-57	233263
sicula	8518-57	233264
ORNITHOPUS compressus	7942-57	244321
ORYZOPSIS miliacea	5649-45	
miliacea	7200-50	194457
miliacea	7486-50	198091
miliacea	8282-52	206581
miliacea	8443-57	230261
miliacea	9142-55	
OXYTROPIS ellipticum	8785-56	238343
PANICUM anceps	8456-57	
clandestinum	8454-55	
coloratum	6514-57	185547
coloratum	6736-51	188932
coloratum	7268-57	196360
coloratum	7272-52	196364
cymbiforme	8786-56	238344
decompositum	8787-56	238345
lilongwe	8788-56	238346
makarikariense "Bambatsi"	6149-57	184776
maximum	8135-51	203417
maximum v. trichoglume	8123-57	202497
stapfianum	8246-56	206371
sp.	7752-51	199351
PENNISETUM ciliare	6401-57	
ciliare	6528-57	
ciliare	8159-57	203362
ciliare	8163-57	203366
ciliare	5180-57	165749
ciliare	5509-57	171944
ciliare	6152-57	184779
sp.	7689-56	199953
PENTASCHISTIS thunbergii	8789-56	238347
PHALARIS arundinacea v. picta	8929	
tuberosa v. stenoptera	3702-53	150171
tuberosa v. stenoptera	5879-57	181440
tuberosa v. stenoptera	8083-58	201891
PHLEUM pratense	6583-56	187281
PIPTOCHAETIUM montevidense	9264-57	247076
PLECTRACINE rigidissima	8792-56	238350
PSORALEA tenax	7952-57	246747

Domestic Distribution of Seed in 1958 to the Southeast Area

Species	BN No.	PI No.
SETARIA sphacelata	9271-57	247410
sphacelata	9272-57	247411
SORGHASTRUM nutans	4500-57	
SORGHUM intrans	8797-56	238355
lamiflora	8798-56	238356
plumosum	8799-56	238357
stipoideum	8800-56	238358
STIPA neesiana	7977-57	237818
splendens	3359-57	147820
STROPHOSTYLES helvola	8565-57	
STYLOSANTHES gracilis	9273-57	247412
TETRACME dregei	7595-56	198603
TETRAGONOLOBUS purpureus	8801-56	238359
TRIDA gigantea	9274-57	247413
triandra	9309-58	247749
TRIFOLIUM balansae	5398-57	168634
campestre	7844-57	200411
campestre	8526-58	233272
cherleri	8527-57	233273
clypeatum	8528-58	233274
curvisepalum	8529-57	233275
dichroanthum	8530-58	233276
diffusum	8804-58	238362
echinatum	8805-58	238363
formosum	8531-58	233277
globosum	5400-57	168636
isodon	8807-58	238365
lappaceum	7963-57	244323
lappaceum	8532-57	233278
lugardii	7141-50	193744
maritimum	8808-58	238366
medium	4980-47	162760
meneghinianum	8606-56	235521
meneghinianum	8809-58	238367
palaestinum	8533-57	233279
pallidum	8811-58	238369
petrisavii	8810-58	238368
pilulare	8534-57	233280
purpureum	8812-58	238370
purpureum	8813-58	238371
resupinatum	8271-52	205238
resupinatum	8535-57	233284
resupinatum	9072-52	244324
scabrum	8536-57	233281
spumosum	8592-57	244325
stenophyllum	7207-57	194474
stolzii	7770-51	199369
strictum	8814-58	238372
tomentosum	7495-58	198100
tomentosum	8538-57	233283

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Southeast Area

Species	BN No.	PI No.
TRIGONELLIA brachycarpa	7967-57	244326
caerulea	7968-57	244328
corniculatus	7966-57	244290
corniculata	7969-57	244279
gladiata	7944-57	244291
monspeliaca	7945-57	244327
VICIA andicola	7445-57	197872
articulata "Monala"	8816-58	238374
cornigera	8817-58	238375
~~erviformis~~ disperma	8597-58	
hirsuta	6004-58	183099
hirsuta	6005-58	183100
hybrida	8819-58	238377
ludoviciana	8820-58	238378
macrocarpa	8821-58	238379
narbonensis	8822-58	238380
obscura	8823-58	238381
sepium	8824-58	238382
sinhiangensis	5409-57	158645
striata	8825-58	238383
VIGNA gracilis	7767-58	199366
stuhlmannii	7772-58	199371
sp.	7819-58	200247

National Plant Materials Center

Domestic Distribution of Seed in 1958
to the Western Area

Species	BN No.	PI No.
AERVA tomentosa	9412-57	249136
ALOPECURUS utriculatus	8672	238227
ANTHOXANTHUM amarum	8675-56	238230
ARACHIS prostrata	9719-58	
ARRHENATHERUM palaestinum	8676-56	238231
ASTRAGALUS boeticus	8117-56	202242
chinensis	4340-44	
cicer	4681-52	
cicer	6974-49	
cicer	7866-58	
cicer	9187-57	
edulis	7869-56	244273
glycyphyllos	2588-52	
hamosus	7867-56	244274
hamosus	7873-57	244308
hamosus	7880-57	244275
hamosus	7885-56	244276
hamosus	8480-57	233226
scorpioides	7884-56	244277
stella	7882-57	244309
ASTREBLA pectinata	8677-56	238232
BOTHRIOCHLOA insculptus	9304-57	246334
BRACHIARIA ruziziensis	9265-57	247404
BRACHYPODIUM pinnatum	9836-58	253298
sp.	9843-58	253502
sp.	9844-58	253503
BROMUS breviaristatus	8687-56	238242
mollis	9413-57	249137
CANAVALIA lineata	9783-57	
CASSIA hirsuta	9266-57	247405
CENCHRUS setigerus	7092-51	193444
setigerus	9178-57	245370
CORONILLA cretica	4769-47	
cretica	7045-50	
varia	4314-57	104560
varia	4418-50	
varia	5201-51	
varia	8094-51	
varia	NY-669-55	
CROTALARIA brownei	8709-56	238264
grahamiana	8709-A-56	238265
intermedia	8710-56	238266
retusa	8711-56	238267
trifoliastrum	8713-56	238269
CUTANDIA maritima	8715-56	238271
DACTYLIS glomerata S-143	8994-57	
glomerata S-143 Reselected	9198-57	
DALEA alopecuroides	2280-50	

Domestic Distribution of Seed in 1958 to the Western Area

Species		BN No.	PI No.	
DANTHONIA	bipartita	8721-56	238277	
	curva	8723-56	238279	
	semiannularis	8726-56	238282	
	setacea	8725-56	238281	
	stricta	8727-56	238283	
DESMODIUM	gyroides	9597-57	237954	
	ovalifolium	9598-57	237955	
DIGITARIA	uniglumis	9305-58	247840	
DOLICHOS	lablab	9241-57	246129	
DORYCNIUM	germanicum	9842-58	253437	
	herbaceum	8281-58	206558	
	sp.	8735-56	238291	
	sp.	9753-58	251820	
ELEUSINE	flagellifera	9179-57	245371	
ELIONURUS	hirsuta	9180-57	245372	
ELYMUS sp. x AGROPYRON sp.		9201-55		
ENCHYLAENA	tomentosa	9414-57	249138	
EURALIA	fulva	9415-57	249139	
EULALIOPSIS	binata	9595-57	244665	
ENNEAPOGON	avenaceus	8737-56	238293	
	flavescens	8738-56	238294	
	lindleyanus	8739-56	238295	
	oblongus	8741-56	238297	
	polyphyllus	8742-56	238298	
ERAGROSTIS	dielsii	8745-56	238301	
	expansa	8744-56	238300	
	setifolia	8748-56	238304	
	tremula	8749-56	238305	
FESTUCA	abyssinica	8757-56	238313	
	alopecurus	8758-56	238314	
	ampla	8759-56	238315	
	scabra	9202-55		
GAUDINIA	fragilis	8760-56	238316	
HYPARRHENIA	claessensi	8762-56	238318	
	hirta	8763-56	238319	
	hirta	9295-57	247079	thru
		thru 9302-57	247086	
	lintonii	8764-56	238320	
	subplumosa	8767-56	238323	
INDIGOFERA	endecaphylla	8770-56	238326	
	endecaphylla	9600-57	238112	
	hirsuta Early str.	9711-57		
	suffruiticosa	9601-57	235643	
LASIOCHLOA	echinata	8775-56	238332	
	hispida	8776-56	238333	
LEUCAENA	glauca	9307-57	247582	
	glauca	9594-57	241167	
	glauca x pulverulenta	9308-57	247583	

Domestic Distribution of Seed in 1958 to the Western Area

Species	BN No.	PI No.
LOTUS conimbricensis	8777-58	238334
edulis	8580-57	244281
ornithopodioides	6436-57	186962
peregrinus	8778-58	238335
pusillus	8778-A-58	238336
weilleri	6330-57	186327
MACKII amurensis	9764-58	
MALUS floribunda	9765-58	
MEDICAGO aschersoniana	7699-57	199972
blancheana	8500	233246
ciliaris	7611-56	198959
ciliaris	8501-58	233247
coronata	8502-58	233248
hispida	7195-52	194462
hispida	7616-57	198964
hispida	7920-57	244314
hispida	7921-52	246740
hispida	7922-57	244283
hispida	7923-57	244312
hispida	7927-57	244313
hispida	7929-57	246741
hispida	7930-57	244315
hispida	8503-58	233249
laciniata	7924-57	244284
littoralis	8504-57	233250
muricata	7925-57	244282
orbicularis	4635-47	
orbicularis	6063-49	
orbicularis	7050-50	
orbicularis	7926-57	244316
orbicularis	8505-57	233251
rigidula	8506-57	233252
rotata	8507-57	233253
rugosa	8508-58	233254
scutellata Early	6833-49	189569
scutellata Mid-season	6835-49	189571
scutellata	7232-50	
scutellata	8509-58	233255
truncatula	8581-57	244285
truncatula v. tribuloides	7135-51	193738
truncatula v. tribuloides	7560-49	198063
tuberculata	8510-58	233256
MELILOTUS gracilis	8781-56	238339
indica	7935-57	244286
italica	7934-57	244287
messamensis	7618-57	198966
ONOBRYCHIS caput-galli	8512-57	233258
squarrosa	8513-57	233259

Domestic Distribution of Seed in 1958 to the Western Area

Species	BN No.	PI No.
ONONIS alopecuroides	8514-58	233260
biflora	8581-58	244319
mitissima	7941-56	244320
ornithopodioides	8515-57	233261
pubescens	8516-57	233262
reclinata	8517-57	233263
sicula	8518-57	233264
ORNITHOPUS compressus	7942-57	244321
ORYZOPSIS miliacea	8443-56	230621
PANICUM turgidum	9181-57	245373
PASPALUM notatum "Pensacola"	1309-58	
PHALARIS arundinacea	9203-57	
daviesii	9416-57	249140
PENNISETUM ciliare	9182-57	245374
ciliare	9183-57	245375
ciliare "Cloncurry"	9853-58	253726
ciliare "Biloela"	9852-58	253725
ciliare "West. Australian"	9855-58	253728
ciliare "Gayndah"	9854-58	253727
PENTASCHISTIS thunbergii	8789-56	238347
PHASEOLUS aureus "Okla. 12"	9769-58	
aureus "Yuba"	9770-58	
aureus "OAE JM 56"	9772-58	
aureus "OAEM 56"	9771-58	
aureus "Golden"	9773-58	
POLYGONUM pensylvanicum	9289-57	
PUERARIA phaseloides	9169-57	
STIPA falcata	9417-57	249149
TETRAGONOLOBUS purpureus	8801-58	238359
THEMEDA anthera	9343	215612
australis	9340	248255
australis	9341	248257
australis	9342	248260
triandra	9329	206346
triandra	9330-	208023
triandra	9331	208267
triandra	9332	208415
triandra	9333	208416
TRIFOLIUM campestre	7844-57	200411
campestre	8526-58	233272
cherleri	8527-57	233273
clypeatum	8528-58	233274
curvisepalum	8529-57	233275
diffusum	8804-58	238362
echinatum	8805-58	238363
echinatum?	8806-56	238364
formosum	8531-58	233277
globosum	5400-57	168636
isodon	8807-58	238365
lappaceum	7963-57	244323
lappaceum	8532-57	233278

Domestic Distribution of Seed in 1958 to the Western Area

Species	BN No.	PI No.
TRIFOLIUM lugardii	7141-50	193744
maritimum	8808-58	238366
meneghinianum	8809-58	238367
palaestinum	8533-57	233279
pallidum	8811-58	238369
petrisavii	8810-58	238368
pilulare	8534-57	233280
purpureum	8540-57	233286
purpureum	8812-58	238370
purpureum	8813-58	238371
resupinatum	8271-52	205238
resupinatum	8535-57	233284
resupinatum	9072-52	244324
scabrum	8536-57	233281
spumosum	8592-57	244325
strictum	8814-58	238372
tomentosum	7495-58	198100
tomentosum	8538-57	233283
vesiculosum	7931-57	246752
xerocephalum	8539-57	233285
xerocephalum	8541-57	233287
TRIGONELLA caerulea	7968-57	244288
corniculata	7966-57	244290
corniculata	7969-57	244289
monspeliaca	7945-57	244327
VICIA articulata "Monala"	8816-58	238374
conigera	8817-58	238375
~~erviformis~~ disperma	8597-58	
ervilia	9316-57	209861
hirsuta	6005-58	183100
hybrida	8819-58	238377
macrocarpa	8821-58	238379
narbonensis	8822-58	238380
sepium	8824-58	238382
sinhiangensis	5409-57	158645
striata	8825-58	238383

Domestic Distribution of Vegetative Material in 1958

BN No.	Species	Amount	
2830	Elymus giganteus	2,830	
2905	Festuca arundinacea (Sod)	14	
2906	" " "	14	
2234	Indigofera kirilowii	650	
680	Liriope graminifolia (2-0)	2,030	
8419	Lonicera maackii podocarpa	4,045	
8360	Panicum amarulum	25	
8627	" "	4,445	
8553	" amarum (Stolons)	3,600	
8357	" virgatum	10	
8566	" "	10	
8574	Panicum virgatum	10	
8622	" "	10	
8632	" "	10	
1168	" " (Root cuttings)	300	
8656	Pyracantha coccinea	10	
8298	Quercus acutissima (Sm. nut)	700	
4191	Robinia pseudoacacia	450	
4192	" "	90	
4193	" "	100	
4194	" "	900	
6661	" "	50	
8295	Robinia pseudoacacia "Bryantsburg"	1,300	
8449	" "	850	
8450	" "	750	
8470	" "	250	
2100	Salix purpurea nana	2,100	
8548	Salix tristis	All tops for HWC	
8548-	" " (1-0)	400	
9236	Tamarix aphylla	5	All dead
9866	" gallica	2	
9865	" hispida	3	
10339	" "	20	
9922	Tamarix pentandra	5	
4980	Trifolium medium	10	
6365	" "	10	
144	Tripsacum dactyloides	3,340	
---	Viburnum sp. (3-0)	7	
---	Zoysia japonica	4	sq. yds.

National Plant Materials Center, Beltsville, Maryland

Seed Collection Data - 1958

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method Hand:	Clipper :Screen	Air:	Hammermill Screen
	AGROPYRON							
8667-56	acutum	Not '58						
7508-50	cristatum	Mid July	7 oz.	Flor.		16-blank	2	
1038-52	elongatum	Mid Aug.	4-3/4 oz.	Flor.		14-bl.	2	
8361-53	elongatum	Mid Aug.	5½ oz.	Flor.		8-bl.	3	
8669-56	scabriglume	Aug-Oct.	5 gm.	Flor.	X			
4718-56	semicostatum	June-Sept.	4-3/4 oz.	Flor.		12-bl.	2	
8668-56	semicostatum	July-Aug.	4 gm.	Flor.	X			
3661-50	trichophorum	Not '58						
8670-56	uganicum	Not '58						
	AGROSTIS							
7153-50	canina	Mid July	6 gm.	Car.		28x28-bl.	2	1/16
8671-56	pallida	*Apr-May	5 gm.	Car.	X			
4429-54	tenuis		9 gm.	Flor.	X			
	ALOPECURUS							
1267-50	pratensis	June-July	1½ gm.	Flor.	X			
8672-56	utriculatus	*Mar-Apr.	8 gm.	Flor		11-bl.	2	
	AMPHICARPUM							
9817-58	purshii	Oct.	1-3/4 oz.	Flor.	X			
	ANDROPOGON							
6280-49	gayanus	*Jan-Feb.	6 gm.	Flor.	X			
311-50	gerardi	Oct.	2-3/4 oz.	Flor.		9-bl.	2	
9703-58	gerardi	Sept.	10-3/4 oz.	Flor.		15-bl.	1	¼
4419-50	ischaemum	Sept.	4 gm.	Car.		1/18-bl.	2	
4780-52	ischaemum	Aug-Oct.	4 gm.	Car.		28x28-bl.	2	1/16
9027-57	littoralis	Oct.	4 gm.	Car.		6x20-bl.	2	¼
9170-57	littoralis	Won't mature here						
8674-56	paniculatus	Sept-Oct.	½ oz.	Flor.		6x22-bl.	1	3/32
7659-51	pertusus	Sept-Oct.	2 gm.	Flor.		1/18-bl.	2	3/32

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method: Hand	Clipper: Screen	Air: Screen	Hammermill: Screen
	ANTHOXANTHUM							
8575-56	amarum	July-Aug.	-1 gm.	Cary.	X			
	ARISTIDA							
8426-55	sp.	July	-1 gm.	Flor.	X			
8427-55	sp.	Not '58						
	ARRHENATHERUM							
7154-53	elatius	July	6 gm.	Flor.		15-bl.		
8576-56	palaestinum	Not '58						
3284-50	thorei	July	Few	Flor.	X			
	ASTREBLA							
8577-56	pectinata	Sept-Oct.	-1 gm.	Cary.	X			
	BOUTELOUA							
8580-56	heterostega	*Jan-Feb.	6 gm.	Flor.	X			
	BRACHIARIA							
3977-50	erucaeformis	July-Oct.	9 gm.	Cary.		1/25-bl.	2	3/32
8581-56	lata	Oct.	14 gm.	Flor.		8-bl.	1	
	BRACHYACHNE							
8583-56	convergens	Sept-Oct.	19 gm.	Flor.		9-bl.	1	¼
	BRACHYPODIUM							
6208-57	distachyon	*July-Aug.	2 gm.	Flor.	X			
6209-57	distachyon	July	5/8 oz.	Flor.		11-1/25	2	
8482-57	distachyon	*May-July	1¼ oz.	Flor.	X			
3003-58	mucronatum	Aug.	No fill					
7988-53	pinnatum	July-Aug.	No fill					
8276-52	pinnatum	Sept.	10 gm.	Flor.	X			
8279-52	pinnatum	July	3-3/4 oz.	Flor.		18-bl.	3	
8945-56	pinnatum	Aug.	2 gm.	Flor.	X			
9156-52	pinnatum	July	2 gm.	Flor.	X			
8584-56	ramosum	Not '58						
7987-53	sylvaticum	July	9 gm.	Flor.		12-bl.	1	
8278-52	sylvaticum	July-Aug.	5 gm.	Flor.	X			

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method: Hand	Clipper: Screen	Hammermill: Air	Hammermill: Screen
	BROMUS							
7996	altissimus	July	14 gm.	Flor.		16-bl.	2	
7989	arduennensis	July	3 oz.	Flor.		16-bl.	2	1/2
3515-54	arvensis	July	1# 10 oz.	Flor.		12-bl.	1	1/2
8687-56	breviaristatus	Not '58						
7420-52	brevis	June	1-3/4 oz.	Flor.		12-bl.	2	
8683-56	briziformis	June	3½ oz.	Flor.		1/12x14/64	1	1/4
5320-51	catharticus	Aug-Oct.	2 oz.	Flor.		18-bl.	2	
7214-52	catharticus	June	12 gm.	Flor.	X			
7422-53	catharticus	June-Aug.	1 lb.	Flor.		18-bl.	2	
7995-57	catharticus	June	3 oz.	Flor.		16-bl.	2	
8196-57	catharticus	June	1-1/8 oz.	Flor.		18-bl.	2	
8612-55	catharticus	June-Aug.	2 lbs.	Flor.		18-bl.	2	
8960-57	commutatus	June-July	2# 9 oz.	Flor.		12-bl.	2	
8947-56	erectus	Not '58						
8197-55	haenkeanus	June & Oct.	13-3/4 oz.	Flor.		17-bl.	3	
8692-56	haenkeanus x stamineus	Oct.	No fill					
8939-57	marginatus	Not '58						
8387-55	mollis	June	2-3/4 oz.	Flor.		14-bl.	1	
8932-56	ornans	Sept.	1 gm.	Flor.	X			
8693-56	polyanthus	Not '58						
8694-56	ramosus	Not '58						
8959-57	secalinus	July	13 oz.	Flor.		17-bl.	3	
8613-55	sitchensis	June-July	2# 5 oz.	Flor.		1/20-18/64	3	1/4
7999-57	~~squarrosus~~ rigidus ex PI	*July-Aug.	2 oz.	Flor.		16-bl.	2	3/8
8690-56	stamineus	Aug-Oct.	2½ oz.	Flor.		12-bl.	2	
8488-57	sterilis	June	3½ oz.	Flor.		16-bl.	2	3/8
5328-56	unioloides	July-Aug.	1# 6 oz.	Flor.		16-bl.	2	1/4
	CALAMAGROSTIS							
8475-55	canadensis	July	5 gm.	Cary.		1/20-bl.	1	1/16

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method			
					Hand:	Clipper :Screen	Air:	Hammermill Screen
	CATAPODIUM							
8701-56	tenellum	*May-June	1-1/2 gm.	Flor.	X			
8702-56	tuberculosum	*May	2, gm.	Flor.		10-bl.	2	
	CENCHRUS							
7092-50	setigerus	July-Sept.	1/2 oz.	Flor.		12-1/25	2	
9178-57	setigerus	July-Sept.	1-1/2 oz.	Flor.		12-1/25	2	
	CHLORIS							
8703-56	acicularis	Aug.-Sept.	5 gm.	Flor.	X			
8705-56	pectinata	July-Sept.	7 gm.	Cary.		1/20-bl.	1	1/16
8706-56	scariosa	July-Sept.	5 gm.	Cary.		1/16-bl.	3	3/32
	CHRYSOPOGON							
6218-49	montanus	Not '58						
6219-49	sp.	Not '58						
	CUTANDIA							
8715-56	maritima	*May-June	18 gm.	Flor.		8-bl.	2	
	CYMBOPOGON							
8716-56	exaltatus	Dec.	1 gm.	Flor.	X			
	CYNOSURUS							
8718-56	elegans	*May	10 gm.	Flor.		7-bl.	1	
	DACTYLIS							
6611-51	glomerata	Not '58						
7189-50	glomerata	*June	5 gm.	Flor.	X			
8079-55	glomerata	July	1-1/4 oz.	Flor.		1/14-36x36	2	3/32
	DACTYLOCTENIUM							
8071-53	aegyptium	*March	1 gm.	Flor.	X			
9015-49	aegyptium	*Nov.-Mar.	5 gm.	Cary.	X			
9334-57	aegyptium	Aug.-Oct.	1-1/4 oz.	Cary.		1/18-bl.	2	

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method: Hand	Clipper: Screen	Hammermill: Air	Hammermill: Screen
	DANTHONIA							
8123-56	curva	July-Aug.	No fill					
8726-56	semiannularis	July	No fill					
8643-56	setifolia	June-July	6 gm.	Flor.		8-bl.		
8727-56	stricta	Not '58						
8644-56	thomsoni	Not '58						
8645-56	unarede	*May-Aug.	2 gm.	Cary.	X			
	DICHANTHIUM							
8728-56	sericeum	Aug.-Oct.	3-1/4 oz.	Flor.		12-bl.	2	3/32
8729-56	superciliatum	Sept.-Oct.	2 gm.	Flor.	X			
	DIGITARIA							
1584-50	argyrograpta	Aug.	7 gm.	Flor.		8-bl.	2	
8730-56	brownei	July-Sept.	10 gm.	Flor.	X			
8732-56	iburua	*Dec.	1-1/2 oz.	Flor.	X			
7256-50	pentzii	Aug-Oct.	1-5/8 oz.	Flor.		8-bl.	2	3/32
1251-50	pentzii	Aug-Oct.	6 oz.	Flor.		1/14-bl.	2	3/32
8733-56	pentzii	Aug-Oct.	11-1/2 oz.	Flor.		8-bl.	2	3/32
7248-50	setivalva	Aug-Oct.	9-1/2 oz.	Flor.		6-bl.	1	3/32
7249-50	setivalva	Aug-Oct.	4-5/8 oz.	Flor.		8-bl.	2	1/8
8734-56	swazilandensis	Early Oct.	5-3/4 oz.	Flor.		6-bl.	2	3/32
6857-51	sp.	Aug.-Oct.	1# 3 oz.	Flor.		8-bl.	2	3/32
	ELEUSINE							
9179-57	flagellifera	Sept-Oct.	No fill					
7589-50	floccifolia	Sept-Oct.	1 gm.	Cary.	X			
9337-47	indica	Aug-Sept.	6-1/4 oz	Cary.		1/16-bl.	2	3/32
	ELIONURUS							
9180-57	hirsuta	Not '58						
	ELYMUS							
8948-56	dahuricus	Aug-Sept.	1/2 oz.	Flor.		10-1/2	2	
3010-50	junceus	July	50 gm.	Flor.		9-bl.	2	
8559-56	mollis	Not '58						

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method: Hand	Clipper: Screen	Air	Hammermill: Screen
	ENNEAPOGON							
8737-56	avenaceus	July-Oct.	4 gm.	Cary.	X			
8738-56	flavescens	July-Oct.	1 oz.	Cary.		20x20-40x40		1/16
8739-56	lindleyanus	July-Oct.	2 gm.	Cary.		1/20-28x28	2	
8740-56	nigricans	July-Oct.	26 gm.	Flor.		6-bl.		1/16
8741-56	oblongus	Oct.	1 gm.	Cary.		1/12-bl.	2	
9328-56	pallidus	July-Oct.	4 gm.	Cary.	X			
8742-56	polyphyllus	July-Oct.	10 gm.	Cary.	X			
	ERAGROSTIS							
9310-56	brownei	July-Aug.	-1 gm.	Cary.		1/25-bl.	2	3/32
8731-57	capensis	Sept.-Oct.	-1 gm.	Cary.		28x28-bl.	2	1/16
8091-52	curvula	July-Sept.	9-1/8 oz.	Cary.		32x32-bl.	1	
9327-52	curvula v. conferta	July-Sept.	4 gm.	Cary.		1/25-bl.	1	
8745-56	dielsii	*July-Sept.	6 gm.	Cary.	X			
6864-51	echinochloides	Sept-Oct.	3-1/2 oz.	Cary.		28x28-bl.	2	1/16
8747-56	leptocarpa	July-Sept.	40 gm.	Cary.		28x28-bl.	2	1/16
8749-56	tremula	July-Sept.	2-3/4 oz.	Cary.		32x32-bl.	1	
	ERIACHNE							
8754-56	pulchella	July-Sept.	-1 gm.	Cary.	X			
	ERIANTHUS							
8009-52	ravennae	Oct.	6 oz.	Cary.		1/20-bl.	1	3/32
	ERIOCHLOA							
8755-56	nubica	Sept.-Oct.	5 gm.	Flor.	X			
8756-56	pseudo-acrotricha	July-Sept.	1-5/8 oz.	Flor.		8-bl.	2	
	FESTUCA							
8757-56	abyssinica	July	6 gm.	Flor.		10-bl.	1	
8758-56	alopecurus	*May	7 gm.	Flor.		9-bl.	1	
8759-56	ampla	Not '58						
2907-50	arundinacea	July	3-1/4 oz.	Flor.		10-bl.	2	3/4
3307-52	arundinacea	Not '58						
5620-51	arundinacea	Late June	3 oz.	Flor.		8-bl.	2	

Seed Collection Data

PI No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method Hand	Clipper :Screen	Air	Hammermill Screen
	FESTUCA							
7215-50	arundinacea	July	3 oz.	Cary.		10-bl.	2	3/4
8491-55	arundinacea	June-July	1-1/4 oz.	Flor.		10-bl.	1	
6321-51	elatior?	Aug.-Sept.	3 gm.	Flor.		10-bl.	2	
6717-52	elatior	Late June	3-1/4 oz.	Flor.		10-bl.	2	
6753-52	elatior	June-July	1-1/2 oz.	Flor.		10-bl.	2	
6307-53	elatior	Not '58						
7308-52	elatior	July	6 gm.	Flor.	X			
7483-50	elatior	July	7 gm.	Flor.		10-bl.	1	
8545-56	novae-zealandiae	Not '58						
1400-50	ovina duriuscula	July	1-3/4 oz.	Flor.		8-bl.	2	
8030-53	rubra	July	1-3/4 oz.	Flor.		9-bl.	2	3/4
4427-53	rubra v. commutata	Not '58						
	FINGERHUTHIA							
7267-53	sesleriaformis	Sept-Oct.	-1 gm.	Cary.		6-bl.	1	
8151-53	sesleriaformis	Late Aug.	1 gm.	Cary.		1/16-bl.	2	3/32
	GAUDINIA							
8760-56	fragilis	*May	9 gm.	Flor.		11-bl.	1	
	HETEROPOGON							
8132-52	contortus	*Dec-Jan.	-1 gm.	Flor.	X			
	HOLCUS							
9323-58	lanatus	July	3-3/4 oz.	Flor.		1/20-34x34	1	1/16
	HORDEUM							
7193-53	bulbosum	June	10 gm.	Flor.		15-6/64	3	1/4
8014-53	bulbosum	Late June	1/2 oz.	Flor.		Blank	3	
8015-53	bulbosum	Late June	3/4 oz.	Flor.		Blank	3	
8102-51	bulbosum	*May-June	9 gm.	Flor.		Blank	3	
	HYPARRHENIA							
7585-53	hirta	Sept-Oct.	1 oz.	Flor.		15-bl.	1	
8703-56	hirta	Aug-Sept.	6 gm.	Cary.	X			
8754-56	lintonii	*Jan-Feb.	1 gm.	Cary	X			

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method Hand:	Clipper :Screen	Air:	Hammermill Screen
	HYPARRHENIA							
8,66-56	ruprechtii	Aug-Oct.	1-1/8 oz.	Flor.		1/12x1/2-bl.		1/2
7738-51	sp. Aff. H. bracteata	*Jan-Feb	3 gm.	Flor.	X			
	KOELERIA							
6500-53	glauca	Late June	31 gm.	Flor.		8-bl.	1	1/2
6326-50	polonica	June-July	3-1/2 oz.	Flor.		10-bl.	1	1/2
	LASIOCHLOA							
8775-56	echinata	*June	6 gm.	Flor.		6-bl.	1	
8776-56	hispida	No heads						
7801-51	LEPTURUS repens	*April	-1 gm.	Flor.	X			
	LOLIUM							
7288-50	multiflorum	Sept-Oct.	5 gm.	Flor.		9-bl.	1	
4736-47	multiflorum x perenne	Sept-Oct.	3 gm.	Flor.		9-bl.	1	
6629-51	perenne	Sept-Oct.	1 gm.	Flor.	X			
6761-52	perenne	Not '58						
8782-56	MICROLAENA stipoides	July-Sept.	-1 gm.	Flor.	X			
	NEURACHNE							
8783-56	alopecuroides	Not '58						
8784-56	mitchelliana	Aug-Sept.	8 gm.	Flor.		10-bl.	2	
	ORYZOPSIS							
8519-55	holciformis	Not '58						
7200-50	miliacea	July-Aug.	1 gm.	Flor.		1/12-bl.	1	
7480-50	miliacea	Aug.	4 gm.	Flor.		1/10-bl.	1	
8232-52	miliacea	July-Aug.	-1 gm.	Flor.	X			
	PANICUM							
8360-55	amarulum	Oct.	¼ lbs.	Flor.		1/12-bl.		3/32
8553-56	amarum	Too late						
8999-57	amarum	Too late						
8450-55	anceps	Oct.	15 oz.	Flor.		7-bl.	2	
8454-55	clandestinum	July & Oct.	5-1/2 oz.	Flor.		6-bl.	2	3/32

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method: Hand	Clipper: Screen	Clipper: Air	Hammermill: Screen
	PANICUM							
6517-51	coloratum	July-Oct.	1-1/4 oz.	Flor.		1/12-bl.	2	
7259-50	coloratum	July-Oct.	1-1/4 oz.	Flor.		1/14-bl.	2	
7270-50	coloratum	Aug-Oct.	2-3/4 oz.	Flor.		1/12-bl.		
7271-50	coloratum	Aug-Oct.	7/8 oz.	Flor.	X			
8186-56	cymbiforme	Sept-Oct.	8 gm.	Flor.	X			
8781-56	decompositum	July-Oct.	6-1/2 oz.	Flor.		1/16-bl.	2	3/32
6520-49	lanipes	July-Oct.	2 gm.	Flor.		1/14-bl.		
8788-56	lalongwe	Sept-Oct.	1-5/8oz.	Flor.		6-bl.	2	
7214-50	maximum	July-Sept.	3 oz.	Flor.		1/12-bl.		
8520-55	repens	Not '58						
6875-49	stapfianum	Aug-Sept.	1 gm.	Flor.	X			
7276-50	stapfianum	July-Sept.	4 gm.	Flor.	X			
9181-57	turgidum	Not '58						
9009-57	virgatum	Oct.	12 gm.	Flor.	X			
9011-57	virgatum	Sept-Oct.	6 gm.	Flor.	X			
9704-58	virgatum	Sept.	1-3/4 oz.	Flor.		1/14-28x28	2	3/32
	PASPALUM							
8638-56	conspersum	*March	2 gm.	Flor.	X			
9002-57	floridanum v. glabratum	Oct.	7-5/8 oz.	Flor.		10-1/25	2	1/8
7450-50	scrobiculatum	Oct.	1# 10 oz.	Flor.		9-1/25	2	1/8
	PENNISETUM							
339	alopecuroides	Sept.	4-3/4 oz.	Cary.		1/12-1/25	3	1/8
4875-47	ciliare	Aug-Sept.	2 oz.	Flor.	X			
6401-50	ciliare	*Feb-Mar.	3 gm.	Flor.	X			
6529-50	ciliare	July-Sept.	10 gm.	Cary.		1/20-32x32		3/32
6530-50	ciliare	July-Sept.	8 oz.	Flor.	X			
6531-49	ciliare	July-Sept.	3/4 oz.	Flor.	X			
7093-50	ciliare	July-Sept.	8 oz.	Flor.	X			
7557-52	ciliare	July-Sept.	3 oz.	Flor.	X			

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method: Hand	Clipper :Screen	Air	Hammermill Screen
	PENNISETUM							
8082-53	ciliare	July-Sept.	2-3/4 oz.	Flor.	X			
8160-53	ciliare	July-Sept.	3-3/4 oz.	Flor.	X			
8162-52	ciliare	July-Sept.	4 oz.	Flor.	X			
9182-57	ciliare	July-Sept.	4-1/2 oz.	Flor.	X			
9183-57	ciliare	July-Sept.	7 oz.	Flor.	X			
9325-47	ciliare	July-Sept.	11 gm.	Flor.	X			
9326-47	ciliare	July-Sept.	14 gm.	Flor.	X			
9702-47	ciliare	July-Sept.	8 oz.	Flor.	X			
9014-50	quartinianum	*Oct-Jan.	37 gm.	Flor.		6-1/25	1	3/32
7689-53	sp.	Aug-Oct.	31 gm.	Flor.	X			
	PENTASCHISTIS							
8789-56	thunbergii	Sept.	No fill					
8790-56	PEROTIS rara	*May-Aug.	1/4 oz.	Flor.	X			
	PHALARIS							
8981-55	canariensis	July	1 gm.	Cary.	X			
8982-55	canariensis	July	17 gm.	Flor.		9-bl.	2	
8522-55	paradoxa	*Apr-June	10 gm.	Flor.		1/15-bl.	2	
3701-50	tuberosa v. stenoptera	July & Oct.	6-1/2 oz.	Flor.		6-1/25	3	3/32
3702-53	tuberosa v. stenoptera	July & Oct.	2-5/8 oz.	Flor.		6-1/25	3	3/32
3922-53	tuberosa v. stenoptera	July & Oct.	6-1/8 oz.	Flor.		6-1/25	3	3/32
5146-48	tuberosa v. stenoptera	July & Oct.	5 oz.	Flor.		6-1/25	3	3/32
5879-54	tuberosa v. stenoptera	July & Oct.	8-3/4 oz.	Flor.		6-1/25	3	3/32
6385-52	tuberosa v. stenoptera	July & Oct.	11 gm.	Flor.		6-1/25	3	3/32
7379-50	tuberosa v. stenoptera	July & Oct.	1 oz.	Flor.		6-1/25	3	3/32
8083-51	tuberosa v. stenoptera	July & Oct.	35 gm.	Flor.		6-1/25	3	3/32
8103-51	tuberosa v. stenoptera	July & Oct.	4 gm.	Flor.		6-1/25	3	3/32
	PHLEUM							
6345-50	phleoides	July	3 gm.	Flor.		1/12-bl.	1	
6632-50	phleoides	July	6 gm.	Flor.		1/15-bl.	2	1/16
6141-53	phleoides	July	19 gm.	Flor.		1/15-bl.	2	
6583-49	pratense S-50	Aug.	39 gm.	Flor.		1/12-36x36	1	1/8

46

Seed Collection Data

BN No.	Species	Collection Period *Greenhouse	Amount	Stored as	Cleaning Method: Hand	Clipper: Screen	Air	Hammermill: Screen
6142-51	PIPTOCHAETIUM stipoides	*May-June	5 gm.	Flor.	X			
8791-56	PLAGIOSETUM refractum	Aug-Oct.	Few	Flor.	X			
	POA							
8647-56	aciculariflia	No heads						
8919-56	caespitosa	Not '58						
8920-56	caespitosa	Not '58						
8921-57	caespitosa	Not '58						
8922-57	caespitosa	Not '58						
8923-57	caespitosa	Not '58						
8924-57	caespitosa	Not '58						
8925-57	caespitosa	Not '58						
8926-56	caespitosa	Not '58						
8648-56	lindsayi	*May-July	4 gm.	Flor.		1/18-bl.	1	
8649-56	maniototo	May-July	4 gm.	Flor.	X			
5385-53	ochroleuca	July-Sept.	1-1/2 oz.	Flor.		6-bl.	1	3/32
8270-52	sp.	Not '58						
8113-51	POLYPOGON monspeliense	July-Sept.	11 gm.	Cary.		30x30-bl.	1	
	PUCCINELLIA							
8651-56	stricta	*June & Sept.	1 gm.	Cary.		1/25-bl.	1	
8346-55	sp.	June-Aug.	5 gm.	Flor.		6-bl.	2	
[illegible]	SETARIA							
7851-52	italica	Sept.	5-1/4 oz.	Flor.		6-bl.	2	1/8
5120-50	sphacelata	Aug-Sept.	2¼ gm.	Flor.	X			
6882-51	sphacelata	Aug-Sept.	3-3/4 oz.	Flor.		6-1/25	1	
9339-[illegible]	sphacelata	Aug-Sept.	17 gm.	Flor.	X			
9054-57	SORGHASTRUM nutans	Oct.	1 oz.	Flor.	X			
	SORGHUM							
8797-56	intrans	*Nov.	2 gm.	Flor.		10-bl.	2	
8798-56	laxiflora	Not '58						
8799-56	plumosum	Not '58						
8800-56	stipoideum	Not '58						

47.

X

Seed Collection Data

BN No.	Species	Collection Period	Amount	Stored as	Cleaning Method: Hand	Clipper: Screen	Clipper: Air	Hammermill: Screen
	SORGHUM							
6540-50	verticilliflorum	Sept.	1# 10 oz.	Flor.		10-bl.	3	1/4
6541-50	verticilliflorum	Sept.	15 oz.	Flor.		10-bl.	3	1/4
7138-50	vulgare	Matures too late						
	SPARTINA							
10341-58	alterniflora	Nov.	1 oz.	Flor.		10-bl.	2	
10340-58	patens	Nov.	1 oz.	Flor.		10-bl.	2	
	SPOROBOLUS							
7280-50	fimbriatus	Sept-Oct.	-1 gm.	Cary.		1/18-bl.	1	
7281-50	fimbriatus	Sept-Oct.	32 gm.	Flor.		1/22-bl.	1	1/16
7283-50	fimbriatus	Sept-Oct.	1 oz.	Flor.		1/20-bl.	1	3/32
7581-53	fimbriatus	Aug-Oct.	3-1/4 oz.	Flor.		1/18-bl.	1	1/16
7596-51	fimbriatus	Aug-Oct.	1-3/4 oz.	Flor.		1/25-bl.	2	1/16
8179-52	fimbriatus	Aug-Oct.	38 gm.	Flor.		1/20-bl.	2	3/32
8180-52	fimbriatus	Aug-Oct.	2-3/4 oz.	Flor.		1/16-bl.	2	1/16
7763-51	pyramidalis	Aug-Oct.	9 gm.	Cary.		1/25-bl.	2	
	STIPA							
1972-56	formicarum	Aug-Sept.	3 gm.	Flor.		10-bl.	2	
3359-50	splendens	Late July	1/2 oz.	Flor.		7-bl.	1	1/4
3360-50	splendens	Late July	1 oz.	Flor.		6-bl.	3	1/4
8343-54	sp.	June	2 gm.	Flor.		10-bl.	1	
	TETRACHNE							
4186-50	dregii	Oct.	1 gm.	Cary.		6-bl.	1	
7595-53	dregii	Oct.	2 gm.	Cary.	X			
8275-52	dregii	Sept.-Oct.	-1 gm.	Cary.	X			
7701-53	TETRAPOGON macranthus	July-Oct.	1/2 oz.	Flor.		17-bl.	1	
8302-56	THEMEDA australis	Sept-Oct.	8 gm.	Flor.		1/14x1/2-1/15	3	1/4
8213-56	TRICHOLAENA monachne	Aug-Oct.	4-3/4 oz.	Flor.		1/16-bl.	2	1/16
8717-56	sp.	Oct.	4 oz.	Flor.		12-bl.	1	
144	TRIPSACUM dactyloides	Sept-Oct.	5# 10 oz.	Flor.		22-6	5	
8815-56	TRIRAPHIS mollis	Aug-Oct.	10 oz.	Flor.		18-bl.	0	1/4

National Plant Materials Center, Beltsville, Maryland

Seed Collection Data - 1958

BN No.	Species	Collection Period	Amount	Cleaning Method: Hand	Clipper: Screen	Clipper: Air	Hammermill: Screen
5972-48	ANTHYLLIS vulneraria	Jul-Aug.	4 gm.		Aspirator	1	
7712-56	ARGYROLOBIUM marginatum	Dec-Jan.	2 gm.	X			
7713-51	virgatum	Dec-Jan.		X			
7539-51	ASTRAGALUS abyssinicus	July	11 gm.		Aspirator	1	
7865-51	~~armatus~~ falcatus c pkts	Late June	7 gm.		Aspirator	1	
8479-55,57	boeticus	April	26 gm.	X			
7876-51	cicer	July	4 gm.		Aspirator	1	
7866-51	cicer	July	19 gm.		Aspirator	1	
7868-51	~~echinus*~~ cicer c	July	7 gm.		Aspirator	1	
7870-51	~~falciformis*~~ falcatus c	June	19 gm.		Aspirator	1	
7872-51	~~gummifer*~~ cicer c	July	6 gm.		Aspirator	1	
7874-51	~~mexicanus*~~ cicer c	July	2 gm.		Aspirator	1	
7878-51	~~mucronatus*~~ cicer c	July	- 1 gm.	X			
7875-51	narbonensis*	July	- 1 gm.	X			
7877-51	~~physodes*~~ glycyphyllos	July	10 gm.		Aspirator	1	
7879-51	~~podocarpus*~~ falcatus c	June	15 gm.		Aspirator	3/4	
7881-51	~~stipulatus*~~ cicer c	July	10 gm.		Aspirator	1	
7887-51	~~vicioides*~~ cicer c	July	2 gm.		Aspirator	2	
8465-55	CANAVALIA lineata	April	39 gm.	X			
9745-58	CHAMAECRISTA fasciculata	Oct.	11¼ oz.		9--blank	5	
8708-56	CLIANTHUS formosus	Sept-Nov.	1 gm.	X			
4314-48	CORONILLA varia	July-Aug.	3 gm.		Aspirator	1	
9242-48	varia	Aug-Sept.	3 gm.		Aspirator	1	
7891-51	viminalis	Apr-July	57 gm.		1/22-1/18x¼	3	X
8712-56	CROTALARIA sericea	Nov.	3½ oz.		Aspirator	1¼	X
9373-58	CYTISUS supinus	Aug-Sept.	54 gm.		8/64--1/12	5	1/8
7894-53	DESMODIUM canadense	Sept.	2 gm.	X			
7895-52	cuspidatum	Sept-Oct.	9 gm.		Aspirator	1	
7896-52	dillenii	Sept-Oct.	9 gm.		Aspirator	1	
8281-53	DORYCNIUM herbacium	Jul-Aug.	30 gm.		Aspirator	1	

Changed on cards & pkts

* Herbariums submitted but ident. not complete.

National Plant Materials Center, Beltsville, Maryland

Seed Collection Data - 1958

BN No.	Species	Collection Period	Amount	Cleaning Method			
				Hand	Clipper		Hammermill
					Screen	Air	Screen
270-40	ELAEAGNUS umbellata	Nov.	34 lbs.	X	Fermented		
7735-51	ERIOSEMA parviflorum	Late Feb.	- 1 gm.	X			
8493-55	HEDYSARUM pallens	Apr-May	3 gm.		Aspirator	1	
8769-56	INDIGOFERA cryptantha	Oct.	1 gm.	X			
8772-56	hirsuta	Late Oct.	6 gm.		Aspirator	3/4	
8772A-56	retroflexa	Jan. '59	Few	X			
8773-56	subulata	Late Jan.	32 gm.		1/25-1/12	2	1/8
8774-56	tettensis	Oct.	- 1 gm.	X			
8560-58	LATHYRUS japonicus	Sept.	11 oz.		8/64-15/64	5	3/8
1173-56	latifolius	Aug.	8 oz.		16--bl.	2	
8562-56	latifolius	Oct.	4¼ oz.		Aspirator	1½	
5919-48	LESPEDEZA bicolor japonica	Nov.	2-5/8 oz.		8-1/25	2	1/8
5921-48	bicolor japonica	Nov.	2 oz.		8-1/25	2	1/8
7598-51	bicolor Natob	Sept-Oct.	8-3/4 oz.		1/12-8/64	5	X
8124-52	bicolor Natob	Sept-Oct.	2 lbs. 11 oz.		1/14-8/64	5	1/8
8379-41	bicolor Natob	Oct.	436 lbs.				
6273-49	cuneata	Late Oct.	7½ oz.		Aspirator	1	1/16
8569-56	cuneata	Nov.	17 oz.		1/16-1/25	2	1/16
8318-57	LONICERA maackii podocarpa	Mid Oct.	2 lbs. 13 oz.	Rubbed	Fermented		
7907-51	LOTUS australis	July	- 1 gm.	X			
8777-56	conibricensis	May	21 gm.		1/22-36/36	3	1/16
8778-56	perigrinus	Apr.	1 oz.		Aspirator	1	
8778A-56	pusillus	Apr-May	26 gm.		Aspirator	1	
7914-52	suaveolens	July-Aug.	20 gm.		1/20-1/25	5	
7906-51	tenuis	July	- 1 gm.	X			
8779-56	tenuis	July-Oct.	22 gm.		1/15-1/25	3	
8863-51	tenuis	July	- 1 gm.	X			
6330-57	weilleri	July-Aug.	½ oz.		Aspirator	1	

National Plant Materials Center, Beltsville, Maryland

Seed Collection Data - 1958

BN No.	Species	Collection Period	Amount	Cleaning Method			
				Hand	Clipper		Hammermill
					Screen	Air	Screen
8499-55	LUPINUS hirsutus	Mid Apr.	- 1 gm.	X			
9322-58	perennis	June	1 oz.		Aspirator	1½	
5983-57	sp.	July	~~/~~ 1 gm.	X			
9858-58	MALUS baccata		6-3/4 oz.	Crushed, fermented			
9765-58	floribunda		7 gm.	Crushed, fermented			
9859-58	sp.		6 oz.	Crushed, fermented			
8500-57	MEDICAGO blancheana	Apr-May	24 gm.		Aspirator	1½	
8501-55	ciliaris	Apr-May	16 gm.		Aspirator	1	
8502-55	coronata	Apr-May	15 gm.		Aspirator	1	
8954-56	hemicycla	Aug-Oct.	3 gm.		Aspirator	3/4	
8503-55	hispida	Apr-May	20 gm.		Aspirator	1	
9200-55	hispida	April	8 gm.	X			
8506-55	rigidula	Apr-June	40 gm.		7/64-1/16	4	1/8
8507-55	rotata	Apr-May	11 gm.	X			
8508-57	rugosa	April	15 gm.		Aspirator	1	
3640-51	ruthenica	Oct.	4 gm.		Aspirator	1	
8509-55	scutellata	Apr-June	28 gm.		9/64-1/18x¼	5	1/4
8510-57	tuberculata	Apr-May	18 gm.		6/64-1/18	5	1/8
8931-40	tunetana	Aug-Nov.	3 gm.	X	Aspirator	1	
9291-55	sp.	June-July	11 gm.		Aspirator	3/4	
9930-40	sp. out of 8931 M. tunetana	Aug-Nov.	5 gm.		Aspirator	1	
8781-56	MELILOTUS ~~gracilis~~ neapolitana	Apr-May	25 gm.		Aspirator	1	
8073-51	MELOLOBIUM exudens	June-July	2 gm.		Aspirator	1	
8512-55	ONOBRYCHIS caput-galli	Apr-	½ oz.		Aspirator	2	
8514-54	ONONIS alopecuroides	Apr-June	1 oz.		Aspirator	2	
8587-57	biflora	Apr-July	12 gm.		Aspirator	2	
8588-51	natrix	Aug.	-1 gm.	X			
8516-55	pubescens	May-July	32 gm.		8/64-1/14	5	1/8
8518-55	sicula	Apr-July	9 gm.		Aspirator	1	

National Plant Materials Center, Beltsville, Maryland

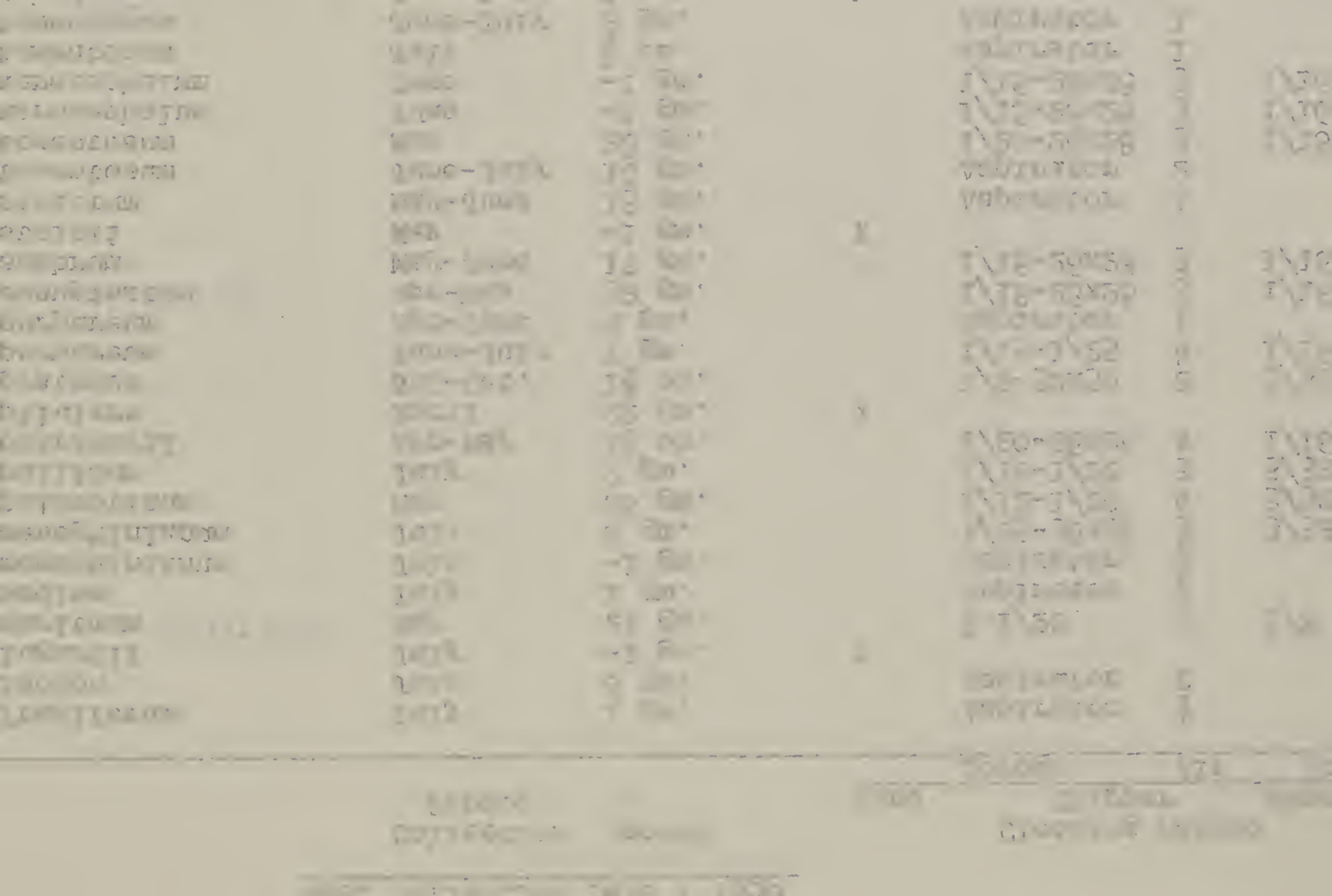
Seed Collection Data - 1958

BN No.	Species	Collection Period	Amount	Cleaning Method			
				Hand	Clipper		Hammermill
					Screen	Air	Screen
6715-49	PHASEOLUS speciosus	Feb-Mar.	4 gm.	X			
8793-56	PSORALEA adscendens	Oct.	5 gm.		Aspirator	1½	
8794-56	bituminosa	Aug-Oct.	11 gm.		9/64-1/12	3	1/8
8795-56	cinerea	Oct.	24 gm.		Aspirator	1	
8796-55	patens	Aug-Sept.	3 gm.	X			
4950-47	RHYNCHOSIA reticulata	Jan-Feb.	1 oz.		Aspirator	1¼	
7804-51	usambarensis	Sept-Feb.	1/2 oz.	X			
6348-48	SESBANIA paulensis	Dec-Jan.	3/4 oz.		Aspirator	¼	
8565-56	STROPHOSTYLES helvola	Oct.	17 oz.		9/16	3	
7400-50	STYLOSANTHES gracilis	Oct.(late)	1 gm.		Aspirator	1	
7398-50	gracilis v. subviscosa	Oct.(late)	20 gm.		1/15-10	3	X
8562-56	SYMPHYTUM peregrinum	June-July	1 gm.		Aspirator	1	
6549-49	TEPHROSIA purpurea	July & Mar.	2 gm.	X			
3606-47	sp.	July & Feb.	2½ oz.	X			
8801-56	TETRAGONOLOBUS purpureus	May-July	39 gm.		Aspirator	3	
8526-55	TRIFOLIUM campestre	May	10 gm.		Aspirator	½	
5399-46	cherleri	Aug-Sept.	2 gm.	X			
8527-55	cherleri	May	1 oz.		6/64-20/20	3	3/32
8528-54	clypeatum	Apr-May	14 gm.		8/64-1/12	5	1/8
8530-55	dichroanthum	July-Aug.	1 gm.		Aspirator	1	
7958-57	diffusum	Aug-Dec.	26 gm.		Aspirator	1	
8804-56	diffusum	June-	2 oz.		1/12-1/20	4	3/32
8805-56	echinatum	May	26 gm.		1/12-1/20	4	3/32
8806-56	echinatum	June	-1 gm.	X			
8531-55	formosum	Apr-June	14 gm.		1/12-1/20	4	3/32
6167-49	fragiferum	Aug-Sept.	-1 gm.	X			
7956-51	fragiferum	June-July	-1 gm.	X			

National Plant Materials Center, Beltsville, Maryland

Seed Collection Data - 1958

BN No.	Species	Collection Period	Amount	Cleaning Method			
				Hand	Clipper		Hammermill
					Screen	Air	Screen
7957-51	TRIFOLIUM fragiferum	July	1 gm.		Aspirator	½	
8807-56	isodon	July	6 gm.		Aspirator	2	
7141-50	lugardii	July	-1 gm.	X			
8808-56	maritmum maritimum	May	21 gm.		½-1/20	4	1/8
4980-47	medium	July	1 gm.		Aspirator	½	
8606-55	meneghinianum	July	-1 gm.		Aspirator	½	
8809-56	meneghinianum	July	6 gm.		1/25-36x36	3	3/32
8533-55	palaestinum	May	26 gm.		1/12-1/20	4	3/32
8811-56	pallidum	July	2 gm.		1/16-1/22	3	3/32
8810-56	petrisavii	Apr-May	1¼ oz.		1/20-28x28	4	1/16
8534-57	pilulare	April	22 gm.	X			
~~9196~~-55 8997-55 C	pratense	Jul-Oct.	1½ oz.		1/2-30x30	2	3/32
8812-56	purpureum	June-July	7 gm.		1/15-1/25	4	1/16
8813-56	purpureum	Apr-June	4 gm.		Aspirator	1	
8535-55	~~resupinatum~~ sp. C	Apr-May	32 gm.		1/18-28x28	3	1/16
8536-55	scabrum	May-June	17 gm.		1/18-28x28	3	1/16
7770-51	stolzii	May	-1 gm.	X			
8814-56	strictum	May-June	13 gm.		Aspirator	1	
7495-50	tomentosum	June-July	10 gm.		Aspirator	2	
8538-55	tomentosum	May	28 gm.		1/20-28x28	3	1/16
8539-54	xerocephalum	June	-1 gm.		1/16-28x28	3	1/16
8541-57	xerocephalum	June	-1 gm.		1/16-28x28	3	1/16
5403-44	tomentosum	July	½ oz.		Aspirator	1	
7208-49	tomentosum	June-July	2 gm.		Aspirator	1	
7139-50	C. sp. aff. T. subrotundum	June-Oct.	2 gm.	X			
7962-51	~~sp.~~ lappaceum	July	9 gm.		Aspirator	1	
9261-50	PK+ ~~sp.~~ lugardii, [illegible]	Aug.	6 gm.		1/12-20x20	3	
9292-55	~~sp.~~ resupinatum NoCard	July	18 gm.		Aspirator	1	



National Plant Materials Center, Beltsville, Maryland

Seed Collection Data - 1958

BN No.	Species	Collection Period	Amount	Cleaning Method			
				Hand	Clipper		Hammermill
					Screen	Air	Screen
9294-44	TRIFOLIUM ~~sp.~~ glomeratum C + Pl.	June-July	1 gm.	X			
7209-49	TRIGONELLA arabica	June-July	1 gm.	X			
8824-56	VICIA angustifolia v. segetalis	July	1 oz.		Aspirator	2	
8825-56	angustifolia v. segetalis	July	1¼ oz.		Aspirator	2	
8816-56	articulata	Apr-May	2½ oz.		Aspirator	2	
8817-56	cornigera	May-July	6½ oz.		Aspirator	3	
6002-50	disperma	July-Aug.	10 gm.		Aspirator	1½	
8597-57	erviformis	July	32 gm.		Aspirator	3	
7446-50	graminea	July-Sept.	1 gm.	X			
6004-48	hirsuta	July	2 gm.	X			
6005-48	hirsuta	July	16 gm.		Aspirator	1½	
7481-50	hirsuta	June-July	2 gm.		Aspirator	1	
8819-56	hybrida	April	34 gm.		Aspirator	3	
8820-56	ludoviciana	July-Aug.	4 gm.		Aspirator	2	
8821-56	macrocarpa	July	9 gm.	X			
8822-56	narbonensis	April	2¼ oz.		Aspirator	3	
4401-47	tetrasperma	July-Oct.	8 gm.	X			
4556-47	Astragalus ~~sp.~~ nutallianus C + Pkt	June-July	2 gm.	X			
7970-52	VIGNA cylindrica	Sept-Oct.	5¼ oz.		14-½	3	1/4
6362-50	sinensis	Aug-Oct.	-1 gm.	X			
6363-48	sinensis	July-Oct.	4 lbs.		17-11	3	1/4
5913-51	triloba	Oct.	¼ oz.		Aspirator	1½	
6952-50	vexillata	Jan-Mar.	3/4 oz.	X			
5914-51	wilmsii	Oct.	1# 9 oz.		Aspirator	1½	